

Adb shell 常用简单命令

一、adb 介绍.....	2
adb 是什么?.....	2
adb 有什么用?.....	2
二、adb 常用命令.....	2
1.Adb devices.....	2
2.Adb shell :.....	3
3.su.....	3
4. ls.....	4
5.cd.....	5
6.Install.....	5
7.Uninstall.....	6
8. Push.....	6
9. Pull.....	6
10. Rename.....	7
11.Mkdir.....	7
12.Rm.....	7
13.Mv.....	8
14.Aapt.....	9
15.Cat.....	9
16.Reboot.....	9
17.Logcat.....	10
18. am start -W -n.....	11
19.getXXX.....	11
20.Df.....	12
21.WM SIZE.....	12
22.GetProp.....	12
23.Dumpsys meminfo.....	12
24 Aapt.exe.....	13
25 Am monitor.....	14

QQ群：432064123

一、adb 介绍

adb 是什么？

adb 的全称为 Android Debug Bridge, 就是起到调试桥的作用。通过 adb 我们可以在 Eclipse 中方面通过 DDMS 来调试 Android 程序, 说白了就是 debug 工具。

adb 有什么用？

借助 adb 工具, 我们可以管理设备或手机模拟器的状态。还可以进行很多手机操作, 如安装软件、系统升级、运行 shell 命令等等。其实 adb 就是连接 Android 手机与 PC 端的桥梁, 可以让用户在电脑上对手机进行全面的操作。

注意: adb 是电脑连接手机的一个桥梁, 而 adb shell 就等于是手机系统的命令, 这个不要混淆, 不然在写自动化脚本调用的时候, 会出现错误。

二、adb 常用命令

1.Adb devices

```
C:\Users\user>adb devices
List of devices attached
00a5df9c    device
60911772    offline
```

查看设备获取目前连接的手机数及设备 ID

Adb devices 获取的手机 ID 列表跟 单独的 adb get-serialno 获取的设备 ID 是一样的

```
C:\Users\user>adb get-serialno
00a5df9c
```

注意点:

- 1.连接的手机需要进入开启 USB 调试, 不同品牌和不同系统的手机开启的位置可能不一样;
- 2.手机端需允许 USB 调试;
- 3.手机连不上可通过重插 USB 数据线、通过第三方手机助手软件连接、重启电脑等方法解决。

QQ群: 432064123

2.Adb shell :

```
C:\Users\user>adb shell
shell@HWY518-T:/ $
```

代表进入手机运行环境

如果没有手机连接会提示:

```
C:\Users\user>adb shell
error: device not found
```

如果连接多台手机，需要单独对某一台手机进行操作的话，需要用到-S
Adb -s +设备 ID+shell +要操作的命令

```
C:\Users\user>adb -s 00a5df9c shell
shell@HWY518-T:/ $
```

3.su

切换到 root 用户

输入 su

```
C:\Users\user>adb shell
shell@HWY518-T:/ $ su
su
root@HWY518-T:/ #
```

显示#，说明获得超级用户权限，也说明该手机已经 ROOT

如果没有获得超级用户权限会提示:

```
C:\Users\user>adb shell
shell@android:/ $ su
su
Permission denied
!shell@android:/ $
```

或者提示:

```
C:\Users\user>adb shell
shell@gucci:/ $ su
su
/system/bin/sh: su: not found
127!shell@gucci:/ $
```

QQ群: 432064123

4.ls

```
C:\Users\user>adb shell
shell@HWY518-T:/ $ su
su
root@HWY518-T:/ # ls
ls
acct
cache
config
d
data
default.prop
dev
emmc@android
emmc@cache
emmc@ebr1
emmc@fat
emmc@protect_f
emmc@protect_s
emmc@sec_ro
emmc@usrdata
enableswap.sh
etc
factory_init.project.rc
factory_init.rc
fstab
init
init.aee.customer.rc
init.charging.rc
init.goldfish.rc
init.modem.rc
init.no_ssd.rc
init.project.rc
init.protect.rc
init.rc
init.trace.rc
init.usb.rc
init.xlog.rc
meta_init.modem.rc
meta_init.project.rc
meta_init.rc
mnt
proc
protect_f
protect_s
res
root
sbin
sdcard
storage
sys
system
ueventd.goldfish.rc
ueventd.rc
vendor
root@HWY518-T:/ #
```

列出目录下的文件和文件夹

QQ群：432064123

5.cd

```
127!root@HWY518-T:/ # cd data
cd data
root@HWY518-T:/data #
```

进入文件夹，等同于 dos 中的 cd 命令

```
root@HWY518-T:/data # cd ..
cd ..
root@HWY518-T:/ #
```

cd .. 返回上一级目录

```
root@HWY518-T:/data # cd local
cd local
root@HWY518-T:/data/local # cd ../../
cd ../../
root@HWY518-T:/ #
```

cd ../../ 返回上两级目录

```
root@HWY518-T:/data/local # cd
cd
root@HWY518-T:/data #
```

cd 进入个人的主目录

```
root@HWY518-T:/data/local # cd -
cd -
/data
root@HWY518-T:/data #
```

cd - 返回上次所在的目录

cd 空格返回到根目录

6.Install

安装

```
C:\Users\user>adb install E:\4399Forums_1.5.1_84.huodong_t2.apk
3864 KB/s <4325903 bytes in 1.093s>
  pkg: /data/local/tmp/4399Forums_1.5.1_84.huodong_t2.apk
Success
```

Adb install +apk 路径

QQ群：432064123

```
C:\Users\user>adb install -r E:\4399Forums_1.5.2_85.ceshi4399_t2.apk
3500 KB/s (3957158 bytes in 1.104s)
    pkg: /data/local/tmp/4399Forums_1.5.2_85.ceshi4399_t2.apk
Success
```

Adb install -r +apk 路径 （覆盖安装，保留数据和缓存文件）

adb install -s <apkfile> 安装 apk 到 sd 卡

7.Uninstall

卸载

```
C:\Users\user>adb uninstall com.m4399.forums
Success
```

Adb uninstall +apk 包名

adb uninstall -k <package> // 卸载 app 但保留数据和缓存文件(比较少用)

8.Push

```
C:\Users\user>adb push E:\test.txt data/local/tmp
41 KB/s (2666 bytes in 0.062s)
```

复制文件到手机

Adb push +文件路径 +手机目录

如: adb push D:\test.txt data/local/tmp

9.Pull

```
C:\Users\user>adb pull data/local/tmp/ludashi.apk E:/test
3878 KB/s (16542612 bytes in 4.165s)
```

从手机复制到电脑

Adb pull +手机目录+电脑目录

如: adb pull data/local/tmp/ludashi.apk E:/test

注意: 电脑目录都是“\”, 而手机目录都是“/”

QQ群: 432064123

10.Rename

文件重命名

```
shell@HWY518-T:/data/local/tmp $ C
C:\Users\user>adb shell rename data/local/tmp/test.txt data/local/tmp/4399test.t
xt
C:\Users\user>adb shell
shell@HWY518-T:/ $ cd data/local/tmp
cd data/local/tmp
shell@HWY518-T:/data/local/tmp $ ls
ls
12.txt
2015-08-03-15com.dragon.android.pandaspace{334CC17D-50BC-4357-BC28-2CE5F1715442}
.apk
4399test.txt
aapt
box
```

adb shell rename path/oldfilename path/newfilename

11.Mkdir

新建文件夹

```
C:\Users\user>adb shell mkdir data/local/tmp/test1
C:\Users\user>adb shell
shell@HWY518-T:/ $ cd data/local/tmp
cd data/local/tmp
shell@HWY518-T:/data/local/tmp $ ls
ls
12.txt
2015-08-03-15com.dragon.android.pandaspace{334CC17D-50BC-4357-BC28-2CE5F1715442}
.apk
4399test.txt
aapt
box
com.m4399.forums
com.umeng.fb.example
ludashi.apk
mtools
mylog
pccd.pid
pcchannel
qunzu
test1
shell@HWY518-T:/data/local/tmp $
```

adb shell mkdir path/foldername

12.Rm

删除文件

QQ群：432064123

```
C:\Users\user>adb shell rm /data/local/tmp/test.txt
```

adb shell rm /data/local/tmp/test.txt

```
C:\Users\user>adb shell rm -r /data/local/tmp/qunzu

C:\Users\user>adb shell
shell@HWY518-T:/ $ cd data/local/tmp
cd data/local/tmp
shell@HWY518-T:/data/local/tmp $ ls
ls
12.txt
2015-08-03-15com.dragon.android.pandaspace{334CC17D-50BC-4357-BC28-2CE5F1715442}
.apk
4399test.txt
aapt
box
com.m4399.forums
com.umeng.fb.example
ludashi.apk
mtools
mylog
pccd.pid
pcchannel
test1
test3.txt
shell@HWY518-T:/data/local/tmp $
```

Rm -r

adb shell rm -r <folder> // 删除文件夹及其下面所有文件

13.Mv

```
C:\Users\user>adb shell mv data/local/tmp/test3.txt data/local/tmp/test1

C:\Users\user>adb shell
shell@HWY518-T:/ $ cd data/local/tmp
cd data/local/tmp
shell@HWY518-T:/data/local/tmp $ ls
ls
12.txt
2015-08-03-15com.dragon.android.pandaspace{334CC17D-50BC-4357-BC28-2CE5F1715442}
.apk
4399test.txt
aapt
box
com.m4399.forums
com.umeng.fb.example
ludashi.apk
mtools
mylog
pccd.pid
pcchannel
test1
shell@HWY518-T:/data/local/tmp $ cd test1
cd test1
shell@HWY518-T:/data/local/tmp/test1 $ ls
ls
test3.txt
shell@HWY518-T:/data/local/tmp/test1 $
```

adb shell mv path/file newpath/file // 移动文件

如: adb shell mv data/local/tmp/test3.txt data/local/tmp/test1

注意: 在移动或者重命名文件夹的时候, 有时手机文件夹挂起, 用的命令是 adb remount 的意思是 重新挂载系统分区, 使系统分区重新可写

14.Aapt

Aapt.exe d badging <apkfile>

获取 apk 的 packagename 和 activity name

如: aapt.exe d badging e:\4399Forums_1.5.2_89.ceshi4399_otapp.apk

注意: apk 要提到本地

或者: adb shell ps /adb shell pm list package

```
C:\Users\user>E:\test\JDK\JDK+SDK\Android_SDK_windows\Android_SDK_windows\adt-bu
ndle-windows-x86-20131030\sdk\build-tools\android-4.4\aapt.exe d badging e:\4399
Forums_1.5.2_89.ceshi4399_otapp.apk
package: name='com.m4399.forums' versionCode='89' versionName='1.5.2'
sdkVersion:'9'
targetSdkVersion:'21'

launchable-activity: name='com.m4399.forums.controllers.readme.ReadMeActivity'
label='' icon=''
uses-feature:'android.hardware.wifi'
uses-implies-feature:'android.hardware.wifi','requested android.permission.ACCE
SS_NETWORK_STATE,android.permission.CHANGE_NETWORK_STATE,android.permission.CHANGE
```

15.Cat

adb shell cat <file> // 查看文件内容

```
C:\Users\user>adb shell cat data/local/tmp/test1/test4.txt
This is the test 123456
这是测试
```

16.Reboot

重启设备

Adb reboot

adb reboot bootloader // 重启到 bootloader, 即刷机模式

adb reboot recovery // 重启到 recovery, 即恢复模式

QQ群: 432064123

17.Logcat

-t 输出最近产生的日志：

Adb logcat -t xxx >电脑路径

如 adb logcat -t 100 > d:/log.txt

把最近的产生 100 行的 log 记录导入到 D 盘 log 文件

该命令主要可以协助解决突然闪退没有 LOG 的 Bug

也可以用 adb logcat >d:/test.txt

-d 输出日志并退出：

建议：可以直接输入 adb logcat -d *:W >d:/xxx.txt 直接过滤一些信息

Adb logcat -d >d:/xxx.txt 主要是-d 是可以直接打印你刚操作的那段记录，并自动退出

-v 用于指定反馈信息级别：

Adb logcat -v time >d:/log.txt 打印出的 log 中带有时间

可以创建批处理文件快捷方式，把 adb 命令复制到文本文件中把后缀名改为.bat

Adb logcat 命令使用帮助说明：

优先级是下面的字符，顺序是从低到高：

V — 明细 verbose(最低优先级)

D — 调试 debug

I — 信息 info

W — 警告 warn

E — 错误 error

F — 严重错误 fatal

S — 无记载 silent

QQ群：432064123

```

C:\Users\user>adb logcat -help
unknown option -- hUnrecognized Option
Usage: logcat [options] [filterspecs]
options include:
  -s                Set default filter to silent.
                   Like specifying filterspec '*:s'
  -f <filename>     Log to file. Default to stdout
  -r [<kbytes>]      Rotate log every kbytes. <16 if unspecified>. Requires -f
  -n <count>        Sets max number of rotated logs to <count>, default 4
  -v <format>        Sets the log print format, where <format> is one of:

                   brief process tag thread raw time threadtime long

  -c                clear <flush> the entire log and exit
  -d                dump the log and then exit <don't block>
  -t <count>         print only the most recent <count> lines <implies -d>
  -g                get the size of the log's ring buffer and exit
  -b <buffer>        Request alternate ring buffer, 'main', 'system', 'radio'
                   or 'events'. Multiple -b parameters are allowed and the
                   results are interleaved. The default is -b main -b system.
  -B                output the log in binary
filterspecs are a series of
  <tag>[:priority]
where <tag> is a log component tag <or * for all> and priority is:
  U    Verbose
  D    Debug
  I    Info
  W    Warn
  E    Error
  F    Fatal
  S    Silent <supress all output>

```

18. am start -W -n

性能测试：启动时间

如 : adb shell am start -W -n
com.m4399.forums/com.m4399.forums.controllers.readme.ReadMeActivity

```

C:\Users\user>adb shell am start -W -n com.m4399.forums/com.m4399.forums.controllers.readme.ReadMeActivity
Starting: Intent { cmp=com.m4399.forums/.controllers.readme.ReadMeActivity }
Status: ok
Activity: com.m4399.forums/.controllers.readme.ReadMeActivity
ThisTime: 246
TotalTime: 246
Complete

```

thisTime 代表的是本次启动的时间

19.getXXX

adb shell getprop ro.product.model 取手机型号

```

C:\Users\user>adb shell getprop ro.product.model
HUAWEI Y518-T00

```

adb devices/adb get-serialno 取设备 ID

```
C:\Users\user>adb get-serialno
00a5df9c

C:\Users\user>adb devices
List of devices attached
00a5df9c      device
```

20.Df

查看内存卡大小

如: adb shell df sdcard

```
C:\Users\user>adb shell df sdcard
Filesystem      Size  Used  Free  Blksize
sdcard          1G  1012M  782M  16384
```

21.WM SIZE

查看手机分辨率:

如: adb shell wm size

```
C:\Users\user>adb shell wm size
Physical size: 1080x1920
```

需要更详细的内容可输入: adb shell dumpsys display | findstr DisplayDeviceInfo

```
C:\Users\user>adb shell dumpsys display | findstr DisplayDeviceInfo
DisplayDeviceInfo{“钱呼疆潮杆施”: 480 x 854, 57.000004 fps, density 240, 240.0
x 240.0 dpi, touch INTERNAL, FLAG_DEFAULT_DISPLAY, FLAG_ROTATES_WITH_CONTENT, F
LAG_SECURE, FLAG_SUPPORTS_PROTECTED_BUFFERS, rotation 0, type BUILT_IN, address
null}
```

22.GetProp

Adb shell getprop 获取机型所有信息

23.Dumpsys meminfo

1. 查看 APP 内存:

Dumpsys meminfo + 包名

如: adb shell dumpsys meminfo com.m4399.forums

QQ群: 432064123

```
C:\Users\user>adb shell dumpsys meminfo com.m4399.forums
Applications Memory Usage (kB):
Uptime: 9358515 Realtime: 9358521

** MEMINFO in pid 4762 [com.m4399.forums] **
```

	Pss	Shared Dirty	Private Dirty	Heap Size	Heap Alloc	Heap Free
Native	0	0	0	12872	8908	3287
Dalvik	8240	1364	6696	26768	16343	10425
Cursor	0	0	0			
ashmem	0	0	0			
Other dev	5	44	0			
.so mmap	1152	172	304			
.jar mmap	0	0	0			
.apk mmap	2	0	0			
.ttf mmap	0	0	0			
.dex mmap	34	0	0			
Other mmap	10313	3920	340			
Unknown	5558	52	1196			
TOTAL	25304	5552	8536	39640	25251	13712

2. 确认 CPU 是 32 为还是 64 位 获取 CPU 的架构信息
输入 adb shell 在输入 getprop 然后找到如下信息。主要看下面图片中红色及上下两栏

```
C:\Users\4399-0865>adb shell
shell@aries:/ $ getprop | grep ro.product.cpu.abi
getprop | grep ro.product.cpu.abi
[ro.product.cpu.abi2]: [armeabi]
[ro.product.cpu.abi]: [armeabi-v7a]
[ro.product.cpu.abi1st32]: [armeabi-v7a,armeabi]
[ro.product.cpu.abi1st64]: []
[ro.product.cpu.abi1st]: [armeabi-v7a,armeabi]
shell@aries:/ $
```

24 Aapt.exe

对测试包进行反编译，查看包名版本等相关信息，语句格式为 aapt.exe d badging +目标文件

QQ群：432064123


```

C:\Users\Administrator>aapt.exe d badging C:\Users\Administrator\Desktop\
package: name= versionCode='54' versionName='5.4'
uses-permission: 'android.permission.CAMERA'
uses-permission: 'android.permission.VIBRATE'
uses-permission: 'android.permission.FLASHLIGHT'
uses-permission: 'android.permission.INTERNET'
uses-permission: 'android.permission.ACCESS_NETWORK_STATE'
uses-permission: 'android.permission.ACCESS_WIFI_STATE'
uses-permission: 'android.permission.MOUNT_UNMOUNT_FILESYSTEMS'
uses-permission: 'android.permission.RUN_INSTRUMENTATION'
uses-permission: 'android.permission.RECEIVE_BOOT_COMPLETED'
uses-permission: 'android.permission.READ_PHONE_STATE'
uses-permission: 'android.permission.GET_TASKS'
uses-permission: 'android.permission.KILL_BACKGROUND_PROCESSES'
uses-permission: 'android.permission.SYSTEM_ALERT_WINDOW'
uses-permission: 'android.permission.WRITE_EXTERNAL_STORAGE'
uses-permission: 'android.permission.READ_EXTERNAL_STORAGE'
uses-permission: 'android.permission.WRITE_SETTINGS'
uses-permission: 'com.android.launcher.permission.READ_SETTINGS'
uses-permission: 'com.android.launcher.permission.INSTALL_SHORTCUT'
uses-permission: 'com.android.launcher.permission.UNINSTALL_SHORTCUT'
uses-permission: 'com.android.launcher.permission.WRITE_SETTINGS'
uses-permission: 'android.permission.CHANGE_WIFI_STATE'
uses-permission: 'android.permission.WAKE_LOCK'
uses-permission: 'getui.permission.GetuiService.com.m4399.gamecenter'
uses-permission: 'android.permission.BATTERY_STATS'
uses-permission: 'android.permission.BROADCAST_STICKY'
uses-permission: 'android.permission.ACCESS_FINE_LOCATION'
uses-permission: 'android.permission.SEND_SMS'
uses-permission: 'com.m4399.gamecenter.permission.MIPUSH_RECEIVE'
uses-permission: 'android.permission.ACCESS_COARSE_UPDATES'
uses-permission: 'android.permission.RECORD_AUDIO'
uses-permission: 'android.permission.MODIFY_AUDIO_SETTINGS'
uses-permission: 'android.permission.PACKAGE_USAGE_STATS'
uses-permission: 'android.permission.BLUETOOTH'
uses-permission: 'android.permission.BLUETOOTH_ADMIN'
sdkVersion: '10'
targetSdkVersion: '22'
uses-permission: 'android.permission.READ_CONTACTS'
application-label:
application-icon-120: 'res/drawable-ldpi-v4/ic_icon.png'
application-icon-160: 'res/drawable-mdpi-v4/ic_icon.png'
application-icon-240: 'res/drawable-hdpi-v4/ic_icon.png'
application-icon-320: 'res/drawable-xhdpi-v4/ic_icon.png'

```

25 Am monitor

Am monitor 主要是监控你点击手机程序的包名。格式为 adb shell am monitor

```

C:\Users\Administrator>adb shell am monitor
Monitoring activity manager... available commands:
(q)uit: finish monitoring
** Activity starting: com.huawei.android.launcher
** Activity starting: com.tencent.android.qqdownloader
** Activity starting: com.tencent.android.qqdownloader
** Activity resuming: com.tencent.android.qqdownloader

```

QQ群: 432064123