Android Stuff

Some personal notes on using Android.

Termux Setup

Get Linux environment on Android.

note *use the installer from fdroid, play store version does not work*

- initial setup

```
$ pkg update
$ pkg install git vim clang make
$ pkg install rsync
```

  - **note** will also get ssh
- shared storage

```
$ termux-setup-storage
```

  - **note** make sure point to sd card (easier to share)
- create work path

```
$ mkdir $HOME/work
```

- clone my1shell, my1codelib, my1codeapp to work path

work in progress...

Alternative: using proot-distro

- initial setup

```
$ pkg update
$ pkg install proot
$ pkg install proot-distro
```

- pick/install/config a distro

```
$ proot-distro install debian
$ proot-distro login debian
```

- login as user (created in previous step)

```
$ proot-distro login debian --user username
```

- shared storage

```
$ termux-setup-storage
```

    - access SD card (`@/storage/path/to/sdcard`) from proot
    - refer to $HOME/storage links

DebianARM Install

- `$ apt install build-essential linux-headers-arm64`
- `$ apt install sqlite3 libsqlite3-dev`
- `$ apt install apt-utils dialog git vim screen rsync`
- `$ apt install texlive texlive-latex-extra texlive-science xfig`

also work in progress...

Dumping ground

Dumping this here for now...

vivo.txt

```
to disable an app (if not available on settings)
* use adb (phone need to enable developer mode - usb debugging)

./adb devices
=> make sure NOT unauthorized (allow on phone side)
=> if that persists: disconnect, revoke usb debugging authorizations on
android, reconnect

./adb shell

pm uninstall [-k] [--user 0] <pkg>

-k : keep data and cache directories after removal

to recover: cmd package install-existing <pkg>

google duo: com.google.android.apps.tachyon
google photos: com.google.android.apps.photos
google play movies: com.google.android.videos
google music: com.google.android.music
google browser plugin: com.android.browser
youtube: com.google.android.youtube

calendar: com.bbk.calendar
```

```
calendar pendants: com.vivo.widget.calendar

facebook services: com.facebook.services
facebook app installer: com.facebook.system
facebook app manager: com.facebook.appmanager

vivo browser: com.vivo.browser
vivo appstore: com.vivo.appstore
vivo easyshare: com.vivo.easyshare
vivo.com: com.vivo.website
vivo email: com.vivo.email

vivo account: com.bbk.account
vivo cloud: com.bbk.cloud

imanager: com.iqoo.secure
imusic: com.android.bbkmusic
imusic: com.vivo.dream.music
itheme: com.bbk.theme

weather: com.vivo.weather
weather-lite: com.vivo.dream.weather
weather storage: com.vivo.weather.provider

vivo ewarranty: com.vivo.ewarranty

touchpal packs:
arabic: com.cootek.smartinputv5.language.oem.arabic
assamese: com.cootek.smartinputv5.language.oem.assamese
bengali: com.cootek.smartinputv5.language.oem.bengali
bodo: com.cootek.smartinputv5.language.oem.indianbodo
bopomofo: com.cootek.smartinputv5.language.oem.cht
burmese: com.cootek.smartinputv5.language.oem.burmese
cangjie: com.cootek.smartinputv5.language.oem.cangjie

pm uninstall -k --user 0 com.vivo.appstore
pm uninstall -k --user 0 com.vivo.website
pm uninstall -k --user 0 com.vivo.browser
pm uninstall -k --user 0 com.vivo.email

pm uninstall -k --user 0 com.bbk.cloud

pm uninstall -k --user 0 com.android.bbk.music

pm uninstall -k --user 0 com.google.android.apps.tachyon
pm uninstall -k --user 0 com.google.android.apps.photos
pm uninstall -k --user 0 com.google.android.videos
pm uninstall -k --user 0 com.google.android.music

pm uninstall -k --user 0 com.google.android.browser
```

alcatel_pixi4_tablet.txt

```
usage access issue

- install app ops - permission manager (xingchen & rikka)
- will need to install shizuku (xingchen & rikka)
- without root shizuku requires adb bootstart (once running, stays on!)
- enable usb debugging (developer mode)
- (on pc) as root, start adb server (adb start-server)
- adb shell... then type the command shown by shizuku app
```

Analysis of Android (cheap, china made) disk parition layout

Dumped...

```
https://spflashtool.com/download/
SP_Flash_Tool-5.1916_Linux.zip

=> ./adb shell

$ cat /proc/mtd
dev:    size   erasesize  name
$ cat /proc/dumchar_info
Part_Name    Size                StartAddr           Type MapTo
preloader    0x0000000000880000  0x0000000000000000  2    /dev/misc-sd
mbr          0x0000000000080000  0x0000000000000000  2
/dev/block/mmcblk0
ebr1         0x0000000000080000  0x0000000000080000  2
/dev/block/mmcblk0p1
pro_info     0x0000000000300000  0x0000000000100000  2
/dev/block/mmcblk0
nvram        0x0000000000500000  0x0000000000400000  2
/dev/block/mmcblk0
protect_f    0x000000000a00000   0x0000000000900000  2
/dev/block/mmcblk0p2
protect_s    0x000000000a00000   0x0000000001300000  2
/dev/block/mmcblk0p3
seccfg       0x0000000000020000  0x0000000001d00000  2
/dev/block/mmcblk0
uboot        0x0000000000060000  0x0000000001d20000  2
/dev/block/mmcblk0
bootimg      0x0000000000600000  0x0000000001d80000  2
/dev/block/mmcblk0
recovery     0x0000000000600000  0x0000000002380000  2
/dev/block/mmcblk0
sec_ro       0x0000000000040000  0x0000000002980000  2
/dev/block/mmcblk0
misc         0x0000000000080000  0x00000000029c0000  2
```

```
/dev/block/mmcblk0
logo         0x0000000000300000   0x0000000002a40000   2
/dev/block/mmcblk0
expdb        0x0000000000a00000   0x0000000002d40000   2
/dev/block/mmcblk0
android      0x0000000035200000   0x0000000003740000   2
/dev/block/mmcblk0p4
cache        0x000000000e200000   0x0000000038940000   2
/dev/block/mmcblk0p5
usrdata      0x000000009e360000   0x0000000046b40000   2
/dev/block/mmcblk0p6
bmtpool      0x0000000001500000   0x00000000ff7700a8   2
/dev/block/mmcblk0
Part_Name:Partition name you should open;
Size:size of partition
StartAddr:Start Address of partition;
Type:Type of partition(MTD=1,EMMC=2)
MapTo:actual device you operate

$ getprop ro.build.ab_update
- returns nothing... so, using A-only partition scheme (instead of newer A-B
scheme)
```

From:
https://azman.my1matrix.cc/ - **Azman @MY1**

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Last update: **2026/04/05 02:09**