Why Termux is a Must-Have on My Android Phone!

Created by Sherif (shareefmvl007@gmail.com)

Why Termux is a Must-Have on My Android Phone! 🚀 (part 1)

1 Download WhatsApp statuses with one command, find and delete large files, or organize your storage effortlessly.

```
nloads $ find . -type f -size +100M -exec ls -lh {} \; | awk '{ print $9 ": " $5 }'
onniyin_Selvan_Part_1_2022_HQ_HDRip_720p_HEVC_DD+5_1_192Kbps_Tam.mkv: 1.9G
kkan.2023.720p.AMZN.WEB-DL.DD+2.0.H.265-CPTN5DW.mkv: 885M
lloor: 928M
.1992.Tamil.1080p.WEBRip.x265.10bit.1GB.mkv: 1011M
lloor: 1.1G
ey: 1.2G
_Tamil.Jeans.1998.720p.True.HDrip.x264.mkv: 1.4G
onniyin_Selvan_2_2023_Tamil_HDRip_720p_x264_AAC_1_4GB_HC_ESub.mkv: 1.5G
We_Met_2007_720p_BluRay_Hindi_AAC_5_1_ESubs_x264_Moviezx.mkv: 1.5G
```

2 Write scripts to batch-download 10 or 20 YouTube videos in HD or Instagram Reels in seconds.

```
~ $ python yt_mp3_downloader.py
♫ Downloading: https://youtu.be/jXwg9l9D51A?si=yu-G1NYSfqu4Frlc
[youtube] Extracting URL: https://youtu.be/jXwg9l9D51A?si=yu-G1NYSfqu4Frlc
[youtube] jXwg9l9D51A: Downloading webpage
[youtube] jXwg9l9D51A: Downloading tv client config
[youtube] jXwg9l9D51A: Downloading player 3dfa10c2-main
[youtube] jXwg9l9D51A: Downloading tv player API JSON
[youtube] jXwg9l9D51A: Downloading ios player API JSON
[youtube] jXwg9l9D51A: Downloading m3u8 information
[info] jXwg9l9D51A: Downloading 1 format(s): 234
[hlsnative] Downloading m3u8 manifest
[hlsnative] Total fragments: 88
[download] Destination: /data/data/com.termux/files/home/yt_mp3_downloads/
Downloading: 31.1% | Speed: 277.58KiB/s | ETA: 00:22 0:22 (frag 26/88)
```

7 Connect to your home Wi-Fi router or remote Linux servers for challenges like Bandit.

```
~ $ ssh bandit0@bandit.labs.overthewire.org -p 2220
bandit
This is an OverTheWire game server.
More information on http://www.overthewire.org/wargames

backend: gibson-0
bandit0@bandit.labs.overthewire.org's password:
```

Seamless File Management

Automate Downloads

3 Create notes or edit .txt files instantly—no need to open Chrome or other apps.

```
import os
from yt_dlp import YoutubeDL

# === Configuration ===
urls = [
    "https://youtu.be/jXwg9l9D51A?si=yu-G1NYSfqu4Frlc",
    "https://youtu.be/jXwg9l9D51A?si=qhLsXT1_HC5Kp9cR",
    "https://youtu.be/zWEOx7TSM6I?si=bFLWsK_J3_bXHmJJ"
]

# Create output directory
output_dir = os.path.expanduser("~/yt_mp3_downloads")
os.makedirs(output_dir, exist_ok=True)

# === yt-dlp Options ===
ydl_opts = {
```

Remote Server Access via SSH

Edit Text Files Directly

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Git Version Control

Quick Calculations & Conversions

Code on the Go

4 Use bc or Python for fast math, currency conversions, or unit calculations.

```
~ $ python
Python 3.12.11 (main, Aug 27 2025, 21:27:47) [Clang 19.0.1 (https:/
Type "help", "copyright", "credits" or "license" for more informati
>>> 2*2
4
>>> 2**2
4
>>> 2*2
4
>>> 2**3
8
>>> 2/3
0.6666666666666666
>>> 2/3+1.333
1.9996666666666667
```

6 Keep your projects synced with GitHub for easy collaboration and backups.

```
~ $ cd my_project
~/my_project $ git init
hint: Using 'master' as the name for the initial branch. This default branc
hint: is subject to change. To configure the initial branch name to use in
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:    git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this comman
hint:
hint:    git branch -m <name>
hint:
hint: Disable this message with "git config set advice.defaultBranchName fa
Initialized empty Git repository in /data/data/com.termux/files/home/my_pro
~/my_project $ echo "Hello Git" > readme.txt
~/my_project $ git status
On branch master
```

5 Learn and run Python, C, HTML, or other languages and compile them right on your phone.

```
>>>
>>> # Ask user for a number
>>> num = int(input("Enter a number: "))
Enter a number: 342
>>> # Check if even or odd
>>> if num % 2 == 0:
...     print(f"{num} is even.")
... else:
...     print(f"{num} is odd.")
...
342 is even.
>>>
```

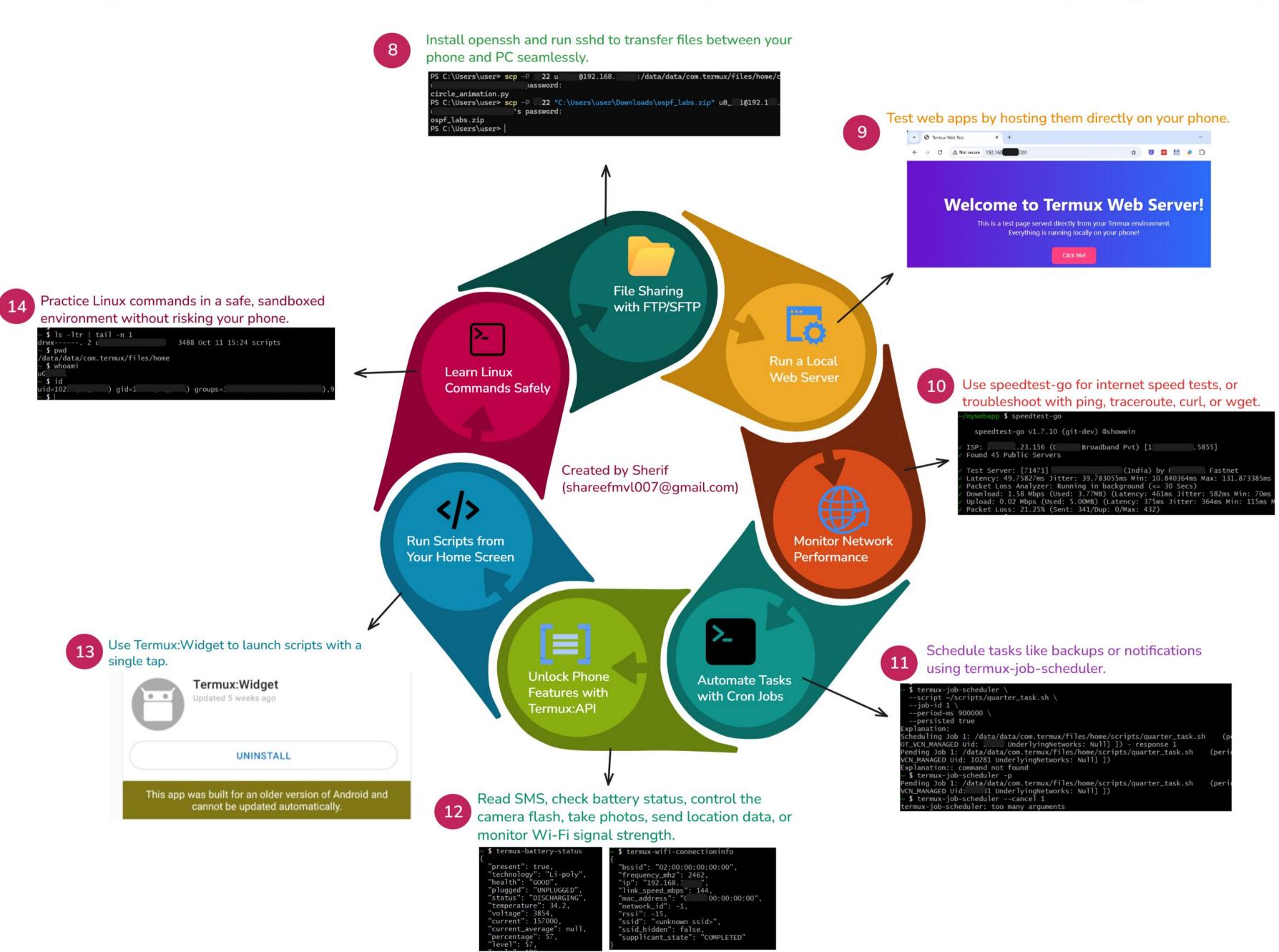# Why Termux is a Must-Have on My Android Phone! 🚀 (part 2)

8 Install openssh and run sshd to transfer files between your phone and PC seamlessly.

```
PS C:\Users\user> scp -P 22 u     @192.168.     :/data/data/com.termux/files/home/c
                        password:
circle_animation.py
PS C:\Users\user> scp -P 22 "C:\Users\user\Downloads\ospf_labs.zip" u0_   1@192.1
                        's password:
ospf_labs.zip
PS C:\Users\user> |
```

9 Test web apps by hosting them directly on your phone.

Welcome to Termux Web Server!
This is a test page served directly from your Termux environment.
Everything is running locally on your phone!

Click Me!

10 Use speedtest-go for internet speed tests, or troubleshoot with ping, traceroute, curl, or wget.

```
~/mywebapp $ speedtest-go

    speedtest-go v1.7.10 (git-dev) @showwin

✓ ISP:      .23.156 (      Broadband Pvt) [1     .5855]
✓ Found 45 Public Servers

✓ Test Server: [71471]              (India) by      Fastnet
✓ Latency: 49.75827ms Jitter: 39.783055ms Min: 10.840364ms Max: 131.873385ms
✓ Packet Loss Analyzer: Running in background (<= 30 Secs)
✓ Download: 1.58 Mbps (Used: 3.77MB) (Latency: 461ms Jitter: 582ms Min: 70ms
✓ Upload: 0.02 Mbps (Used: 5.00MB) (Latency: 375ms Jitter: 364ms Min: 115ms M
✓ Packet Loss: 21.25% (Sent: 341/Dup: 0/Max: 432)
```

Circular diagram (clockwise):
- File Sharing with FTP/SFTP
- Run a Local Web Server
- Monitor Network Performance
- Automate Tasks with Cron Jobs
- Unlock Phone Features with Termux:API
- Run Scripts from Your Home Screen
- Learn Linux Commands Safely

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14 Practice Linux commands in a safe, sandboxed environment without risking your phone.

```
$ ls -ltr | tail -n 1
drwx------. 2 u          3488 Oct 11 15:24 scripts
$ pwd
/data/data/com.termux/files/home
$ whoami
uC
$ id
uid=102(        ) gid=1       ) groups=         ),9
$ |
```

13 Use Termux:Widget to launch scripts with a single tap.

Termux:Widget
Updated 5 weeks ago

UNINSTALL

This app was built for an older version of Android and cannot be updated automatically.

12 Read SMS, check battery status, control the camera flash, take photos, send location data, or monitor Wi-Fi signal strength.

```
~ $ termux-battery-status
{
  "present": true,
  "technology": "Li-poly",
  "health": "GOOD",
  "plugged": "UNPLUGGED",
  "status": "DISCHARGING",
  "temperature": 34.2,
  "voltage": 3854,
  "current": 157000,
  "current_average": null,
  "percentage": 57,
  "level": 57,
```

```
~ $ termux-wifi-connectioninfo
{
  "bssid": "02:00:00:00:00:00",
  "frequency_mhz": 2462,
  "ip": "192.168.    ",
  "link_speed_mbps": 144,
  "mac_address": "(    00:00:00:00",
  "network_id": -1,
  "rssi": -15,
  "ssid": "<unknown ssid>",
  "ssid_hidden": false,
  "supplicant_state": "COMPLETED"
}
```

11 Schedule tasks like backups or notifications using termux-job-scheduler.

```
$ termux-job-scheduler \
--script ~/scripts/quarter_task.sh \
--job-id 1 \
--period-ms 900000 \
--persisted true
Explanation:
Scheduling Job 1: /data/data/com.termux/files/home/scripts/quarter_task.sh    (pe
OT_VCN_MANAGED Uid:      UnderlyingNetworks: Null] ) - response 1
Pending Job 1: /data/data/com.termux/files/home/scripts/quarter_task.sh    (peri
VCN_MANAGED Uid: 10281 UnderlyingNetworks: Null] )
Explanation:: command not found
$ termux-job-scheduler -p
Pending Job 1: /data/data/com.termux/files/home/scripts/quarter_task.sh    (peri
VCN_MANAGED Uid:    31 UnderlyingNetworks: Null] )
$ termux-job-scheduler --cancel 1
termux-job-scheduler: too many arguments
```

Why Termux is a Must-Have on My Android Phone! 🚀 (part 3)

15 Manage data with SQLite, MariaDB, or PostgreSQL right on your device.

```
~ $ sqlite3
SQLite version 3.50.4 2025-07-30 19:33:53
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite> .open mydb.sqlite
sqlite> CREATE TABLE users(id INTEGER PRIMARY KEY, name TEXT, email TEXT);
sqlite> INSERT INTO users(name,email) VALUES('Alice','alice@example.com');
sqlite> SELECT * FROM users;
1|Alice|alice@example.com
```

16 Use ffmpeg to convert audio or video formats with ease.

```
~ $ ffmpeg -i insta_reel.mp4 insta_reel.avi
ffmpeg version 7.1.1 Copyright (c) 2000-2025 the FFmpeg developers
  built with Android (13624864, +pgo, +bolt, +lto, +mlgo, based on r530567e) cla
  configuration: --arch=aarch64 --as=aarch64-linux-android-clang --cc=aarch64-li
rmux-build/_cache/android-r28c-api-24-v1/bin/pkg-config --strip=llvm-strip --cro
  --cross-compile --enable-gnutls --enable-gpl --enable-version3 --enable-jni --ena
-libfribidi --enable-libgme --enable-libharfbuzz --enable-libmp3lame --enable-li
ibsoxr --enable-libsrt --enable-libssh --enable-libsvtav1 --enable-libtheora --e
able-libx264 --enable-libx265 --enable-libxml2 --enable-libxvid --enable-libzimg
  -extra-libs=-landroid-glob --disable-vulkan --enable-neon --disable-libfdk-aac
  libavutil      59. 39.100 / 59. 39.100
  libavcodec     61. 19.101 / 61. 19.101
```

Run a complete desktop environment on your phone and access it remotely via a VNC client

Created by Sherif
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Run Lightweight Databases

Convert Media Files

Access Full Linux UI with VNC Viewer

17 Organize tasks and notes with tools like todo.txt, calcurse, journal-cli, or taskwarrior.

```
          Calendar
          (#284)
       October 2025
     Mon Tue Wed Thu Fri Sat Sun
40   29  30   1   2   3   4   5
41    6   7   8   9  10 [11] 12
42   13  14  15  16  17  18  19
43   20  21  22  23  24  25  26
44   27  28  29  30  31   1   2
```

```
           Appointments


~ 15:30 -> 17:30
Meeting with Team
```

Boost Productivity with CLI Tools

GUI Support with Termux-GUI

20 Use termux-gui packages (termux-gui-dialog, termux-gui-dmenu, termux-gui-files, etc.) to run graphical apps, display dialogs, or visualize Python plots without a full GUI setup.

GUI Termux:GUI
A plugin for Termux to use the Android GUI from terminal applications.

New in version 0.1.6

Implemented all Protobuf methods
Added features for the Protobuf protocol:
- setting an Activity to fullscreen

Customize Your Terminal

Run Other Linux Distros

18 Install Kali Linux or use proot-distro to run multiple Linux environments.

```
~ $ proot-distro list

Supported distributions (format: name < alias >):

 * Adélie Linux < adelie >
 * Alpine Linux < alpine >
 * Arch Linux < archlinux >
 * Artix Linux < artix >
 * Chimera Linux < chimera >
 * Debian (trixie) < debian >
 * deepin < deepin >
 * Fedora < fedora >
 * Manjaro < manjaro >
 * OpenSUSE < opensuse >
 * Pardus < pardus >
 * Rocky Linux < rockylinux >
 * Ubuntu (24.04) < ubuntu >
 * Void Linux < void >
```

```
~ $ proot-distro login alpine
localhost:~#
localhost:~# whoami
root
localhost:~# ping -c 1 8.8.8.8
PING 8.8.8.8 (8.8.8.8): 56 dat
64 bytes from 8.8.8.8: seq=0 t

--- 8.8.8.8 ping statistics --
1 packets transmitted, 1 packe
round-trip min/avg/max = 29.37
localhost:~# uptime
12:07:47 up 11 days,  7:52,
localhost:~# |
```

19 Personalize with Oh My Zsh, Fish shell, or a custom .bashrc for a sleek look.

```
oh my zsh

                    ....is now installed!

Before you scream Oh My Zsh! look over the `.zshrc` file to select plugins, themes, and options.

• Follow us on X: https://x.com/ohmyzsh
• Join our Discord community: https://discord.gg/ohmyzsh
• Get stickers, t-shirts, coffee mugs and more: https://shop.planetargon.com/collections/oh-my-zsh

~ ~
~ ~
```

Why Termux is a Must-Have on My Android Phone! 🚀 (part 4)

22 Secure notes, scripts, or passwords with gpg, openssl, or age.

```
→ ~ echo "My secret note" > ~/note.txt
→ ~ openssl enc -aes-256-cbc -pbkdf2 -salt -in ~/note.txt -out ~/note.txt.enc
enter AES-256-CBC encryption password:
Verifying - enter AES-256-CBC encryption password:
→ ~ openssl enc -d -aes-256-cbc -pbkdf2 -in ~/note.txt.enc -out ~/note_decrypted.txt
enter AES-256-CBC decryption password:
→ ~ cat ~/note_decrypted.txt
My secret note
```

23 Use grep, awk, sed, or jq to process logs, JSON, or text files quickly.

```
→ ~ jq '.[].action' ~/logs.json
"login"
"upload"
"login"
"login"
"upload"
→ ~ jq '.[] | select(.status=="success")' ~/logs.json
{
  "time": "2025-10-11T10:00:00Z",
  "user": "alice",
  "action": "login",
  "status": "success"
}
```

28 Use neofetch or cpufetch to display real-time phone specs like CPU, memory, or OS in a colorful, stylish format.

```
→ ~ neofetch
              u0_a281@localhost
              ------------------
              OS:         aarch64
              Host: i       2
              Kernel: 4.19.152-perf+
              Uptime: 11 days, 8 hours, 19 mins
              Packages: 297 (dpkg), 1 (pkg)
              Shell:
              Terminal: /dev/pts/1
              CPU:                  1GHz
              Memory: 8049MiB / 11585MiB
```

Encrypt Sensitive Data

Analyze Logs and Data

Check System Info in Style

24 Download man pages, cheatsheets, or programming docs for offline use with man or w3m.

```
NAME
       ls - list directory contents

SYNOPSIS
       ls [OPTION]... [FILE]...

DESCRIPTION
       List information about the FILEs (the current directory by default).
       Sort entries alphabetically if none of -cftuvSUX nor --sort is
       specified.
```

Access Offline Documentation

Created by Sherif
(shareefmvl007@gmail.com)

Create Command Aliases

27 Set up shortcuts for long or frequently used commands to save time.

```
→ ~ alias | head -n 20
-='cd -'
...=../../..
....=../../../.
....=../../../../..
.....=../../../../..
1='cd -1'
2='cd -2'
3='cd -3'
4='cd -4'
5='cd -5'
6='cd -6'
7='cd -7'
8='cd -8'
9='cd -9'
_='sudo '
egrep='grep -E'
fgrep='grep -F'
```

Browse the Web in Text Mode

Learn TLS and Certificates

25 Explore SSL/TLS and capture certificate chains (e.g., Google's) using openssl.

```
→ ~ openssl s_client -showcerts -servername google.com -connect google.com:443 </dev/null > ~/g
Connecting to 172.217.24.174
depth=2 C=US, O=Google Trust Services LLC, CN=GTS Root R4
verify return:1
depth=1 C=US, O=Google Trust Services, CN=WE2
verify return:1
depth=0 CN=*.google.com
verify return:1
DONE
```

26 Use w3m, lynx, or links for lightweight browsing or reading documentation.

```
Google Search Help
[                              ]

Sign in

Google Help

• Help Center
• Community
• Google Search
• Privacy Policy
• Terms of Service
• Submit feedback

Send feedback on...
(*)
```

Why Termux is a Must-Have on My Android Phone! 🚀 (part 5)

29 Run df -h to check disk usage or free -h to see available memory instantly.

```
→ ~ free -h
              total      used        free    shared  buff/cache   available
Mem:          11Gi       7.7Gi       288Mi   122Mi   3.3Gi        3.4Gi
Swap:         8.0Gi      6.0Gi       2.0Gi
→ ~ df -h
Filesystem                Size Used Avail Use% Mounted on
/dev/block/dm-5           3.9G 3.9G     0 100% /
tmpfs                     5.6G 2.1M  5.6G   1% /dev
tmpfs                     5.6G    0  5.6G   0% /mnt
```

30 Enjoy simple text-based games like snake, 2048, or pacman for fun on the go.

```
2048.c                    4 pts
    .     .     .     .
    .     .     .     2
    .     .     .     .
    2     2     2     4
        ←,↑,→,↓ or q
```

35 Use apt, pkg, or other package managers to install tools and keep them updated.

```
~ $ apt list --installed
Listing... Done
2048-c/stable,now 1:1.0.3-1 aarch64 [installed]
apt/stable,now 2.8.1-2 aarch64 [installed]
attr/stable,now 2.5.2-1 aarch64 [installed,automatic]
autoconf/stable,now 2.72 all [installed,automatic]
automake/stable,now 1.18.1 all [installed,automatic]
bash/stable,now 5.3.3-1 aarch64 [installed]
bat/stable,now 0.25.0-3 aarch64 [installed]
bc/stable,now 1.08.2-1 aarch64 [installed,automatic]
```

Monitor Storage and Memory

Play Command-Line Games

Multiple Package Managers

31 Download man pages, cheatsheets, or programming docs for offline use with man or w3m.

Create Fun Terminal Animations

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Seamless File Access with Files App

34 Pair Termux with the "Files" app (available on Google Play Store) for easy access, management, and sharing of Termux files.

☰ **Termux**   🔍 ⋮

Termux

Files from Termux   ▤

📁 downloads   📁 go

📁 kolibri_extracted   📁 multi-label-URL-cla...

Archive and Extract Files

Track Phone Uptime date, clandar

32 Run uptime to see how long your phone has been running. cal to display a calendar.

```
→ ~ uptime -s
2025-09-30 09:45:08
→ ~ date
Sat Oct 11 18:11:40 IST 2025
→ ~ cal
     October 2025
Su Mo Tu We Th Fr Sa
          1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
```

33 Compress or extract files like .zip, .tar, .xz, or .tar.xz with tools like tar or unzip.

```
~ $ zip -r ~/scripts.zip scripts
  adding: scripts/ (stored 0%)
  adding: scripts/ping_job.sh (deflated 17%)
  adding: scripts/quarter_task.sh (deflated 17%)
  adding: scripts/quarter_log.txt (deflated 53%)
```