# **Backing Up Android Devices to the Unified Off-Site Repository**

This note distills the earlier phone-backup discussion into a single reference you can drop into the repo.

## 1 Backup Methods by Phone Type

Termux + Restic / Kopia	×	Any folder reachable in /sdcard (DCIM, Download, WhatsApp, etc.)	restic backup /sdcard/DCIMhost PHONE-PIXEL8 (run via Termux:Boot or Tasker). Uploads straight to the shared repo.
<b>SeedVault</b> (CalyxOS, LineageOS, /e/OS)	×	App APK + data, SMS, call log, user-selected dirs	SeedVault's SFTP destination points at remote:/seedvault-phone/; a PC cron job then restic backup that folder.
TWRP / Nandroid IMG	$\sqrt{}$	Block-level image of system, vendor, data, boot	Copy IMG folder to a PC or USB;  restic backup /TWRP/ BACKUPS/tag NANDROID.
Syncthing Android	×	Real-time mirror of selected folders	PC receives folder → PC's snapshot-to-Restic timer picks it up.

#### **2 Restore Paths**

Scenario	Restore Steps		
Lost photo / doc	restic mount on any PC $\rightarrow$ browse to /snapshots/PHONE-*/ <path> <math>\rightarrow</math> copy.</path>		
New phone (same Google acct)	Google Cloud restores contacts, SMS, settings <i>automatically</i> ; Termux-Restic job restores media after first sync.		
New phone (SeedVault ROM)	SeedVault "Restore apps & data" from same SFTP path.		
Full rollback after modding mishap	Boot TWRP → push latest IMG from Restic mount to /sdcard/TWRP/BACKUPS/ → "Restore".		

#### 3 Scheduling & Bandwidth

Job	Frequency	Data volume
Termux-Restic file backup	Daily (Termux:Boot cron)	First run 15–20 GB; nightly delta few hundred MB.
SeedVault SFTP push	Nightly (built-in)	App data ZIPs; tens of MB.
Restic prune	Weekly on repo host	Keeps 7 daily / 4 weekly / 6 monthly snapshots.

Backblaze B2 cost  $\approx$  \$1.20/month for one 128 GB phone; virtually free on a Hetzner Storage Box (fits under 1 TB).

#### **4 Privacy**

- All phone data arrives already encrypted (Restic/Kopia AES-256, SeedVault AES+ChaCha).
- Cloud provider never sees plaintext; same encryption keys as PC backups.

### **5 TL;DR Implementation**

- 1. **Non-root stock phones:** install Termux, Restic binary, schedule daily backup of /sdcard.
- 2. **Custom ROM phones:** enable SeedVault  $\rightarrow$  SFTP to the same remote host.
- 3. **Rooted tinkerer phones:** add periodic TWRP images; store via Restic.
- 4. No extra cloud accounts everything lands in the **same encrypted repository** you already pay for.