Thanksgiving-Privacy Playbook

One- to two-page checklist for a privacy-first holiday gathering

Equipment List

- Router (OpenWrt / pfSense / Merlin)
- 2 × VPS (different continents) WireGuard installed
- Raspberry Pi (or spare Linux box) DoH proxy, BLE dongle
- Bluetooth-capable dongle / BLE dongle
- Smart speaker or spare Bluetooth speaker (white-noise)
- Optional: Android phone with Termux (cellular-like noise)
- Power strip + UPS

Network Segmentation

- 1. Flash router → create VLAN 10 (Main), VLAN 20 (Guest), VLAN 30 (TV)
- 2. Enable AP/Client Isolation on VLAN 20
- 3. Block inter-VLAN traffic (firewall rules)
- 4. Drop broadcast ports 1900, 5353, 5355

Multi-Hop VPN

- 1. Spin up VPS A (Europe) & VPS B (Asia) → install WireGuard
- 2. Generate keys, configure A \rightarrow forward to B, B \rightarrow internet
- 3. Add WG interface on router, set as default GW for VLAN 20
- 4. Verify with ip-leak test

Encrypted DNS & Telemetry Blocking

- 1. Install `cloudflared` on Pi → `proxy-dns --port 5053`
- 2. Add telemetry domains → `address=/telemetry.proton.me/0.0.0.0` in dnsmasq
- 3. Push DoH endpoint via DHCP option 119 to VLAN 20 & 30
- 4. Block plain DNS (port 53) on router

MAC Rotation & Split-Tunnel DNS

- Cron: `macchanger -r eth0 && /etc/init.d/network restart` (hourly)
- DNS tags → three DoH providers (Cloudflare, Quad9, Google)
- Assign tags round-robin to DHCP leases

Decoy SSIDs

- Add two extra SSIDs, reject all auth, lower TX power
- Guests only connect to "Guest-WiFi" (the real one)

Noise Engine (Pi)

```
```bash
```

git clone https://github.com/proton-lumo/thanksgiving-noise.git cd thanksgiving-noise pip3 install -r requirements.txt sudo systemctl enable bluetooth && sudo hciconfig hci0 up nohup python3 http\_chaff.py & nohup python3 ble\_beacon.py & nohup python3 udp\_noise.py & screen -S white\_noise # run ./white\_noise.sh inside nohup python3 tls\_burst.py &

• Or install the provided thanksgiving-noise.service and enable it.

#### **TV Hardening (Optional)**

- Put TV on VLAN 30, force DoH, block telemetry DNS entries
- Disable voice assistant & auto-updates
- Use local Plex/Jellyfin for streaming

#### **Verification Checklist**

Test	Expected
IP leak test (ipleak.net)	Shows VPS B IP
Wi-Fi scan	3 SSIDs, only one gives DHCP
BLE scan	Random "Device-XXXX" beacons
Wireshark capture	Mixed HTTP chaff + normal traffic
Audio level	Soft white-noise (~40 dB)

#### **Ready for Thanksgiving!**

Print this sheet, tape it to the fridge, and follow the steps before the first guest arrives. Your family can enjoy the parade, the turkey, and the football — while the data-brokers get nothing but static.