IPHONE APPS

A smorgasbord of apps...

- Authy
- Arc Search
- Windy
- Rise
- Can of Soup

Fun and profit through...

SELF HOSTING

Contents

- Motivation
- Applications
- Underlying hardware
- Network architecture
- Hypervisor

Motivation

- Reduce the amount of data in the hands of big tech vendors
- Don't lose stuff
- Don't be dependent on vendors' proprietary formats / technology
- Balance privacy, security and convenience
- Don't piss off the wife

Applications

- Home Assistant unified control of all smart devices
- Photoprism self-host photos from all sources
- NextCloud file sharing, collaboration
- PiHole block ads across your whole network

Hardware

- Low-cost, low power consumption, low noise
- Assume stuff will break



Hardware -Compute

Fanless mini-PCs



Hardware - Storage

- 4-bay hard disk enclosure
- 4 x 4TB drives
- USB 3.0 connection
- ZFS managed
 - RAID-like protection against disk failure
 - Non-destructive writing

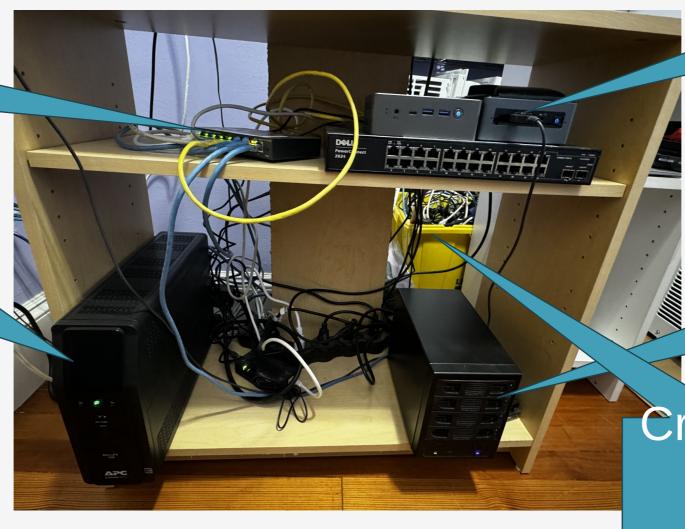
Network

- Verizon FIOS 1GB
- OPNSense router running on QOTOM fanless PC
- PiHole network-wide ad-blocking
- Mullvad VPN for all traffic (except TV streaming)
- Unifi Ubiquiti Wi-fi access points
- Segregated VLANs for computers, phones, guests and devices
- Wireguard VPN for remote management locked to my devices
- NGNIX Proxy Manager to expose selected services



Managed switch

UPS (power backup)



2 Servers

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Hypervisor

- Proxmox cluster runs multiple virtual machines (demo)
- Automated daily offsite backup of all critical files (Backblaze B2)