Home Lab

- Resources
- PiKVM
- Services
- Handling Power Loss
- NextDNS
- eGPUs
- Exterior PoE
- Mobile Home Lab

Resources

VMs

- proxmox

Containers

- Nomad
- Kubernetes
- Docker
  - portainer.io (web UI for docker)

NAS

- TrueNAS Core

Task Scheduling

- Airflow

PiKVM

Gotchas

- Make sure to double check your CIDR rule when establishing a static IP. Does `/24` really mean what you think it means?
- If you are planning on using WiFi make sure to buy the external antenna
- In order for keyboard capture to work correctly you need to run Chrome in app mode

PiKVM v4 Mini

Services

RSS Aggregator / Reader

Miniflux - Minimalist and Opinionated Feed Reader + Reeder 5 (reederapp.com)

Handling Power Loss

UPSes

- OLS3000ERT2UA - Smart App UPS Systems | CyberPower

Articles

- Network UPS Tools (NUT) Ultimate Guide | Techno Tim

Strategies

Turn Off Devices too Stupid to Turn Themselves Off

UniFi Devices

From NUT Server sshpass to server `ubnt-systool poweroff`

NextDNS

- How to install NextDNS on Unifi Dream Machine Pro: https://github.com/nextdns/nextdns/wiki/UnifiOS

eGPUs

Discussions

- Powering 4 OCuLink to PCIe x16 Adapters without 4 PSUs - https://egpu.io/forums/custom-egpu-chassis/powering-4-oculink-to-pcie-x16-adapters-without-4-psus/#post-1116472
  - https://www.reddit.com/r/eGPU/comments/1dir8p0/multiple_oculink_adapters_one_psu/
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Oculink

Parts

- PCIe 4.0 F9G 64Gbps OcuLink Laptop External Graphics Card GPU Docking Station for M.2 NVMe to SFF-8612 OcuLink eGPU Adapter Card: https://www.aliexpress.us/item/3256807955790836.html
- Oculink 64Gbps Transfer External Graphics Dock EG01 G38 GPU Dock Straight Elbow Cable 8Pin Connector ATX 800w Power Supply - https://www.aliexpress.us/item/3256807326757194.html
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Thunderbolt 4/USB-C 4

Parts

- ADT UT3G V1.6 External GPU Adapter - USB4 to PCIe 4.0 x16 eGPU for Thunderbolt 4/3 Perfect for NUC, ITX, STX Laptops Gaming PCs - https://www.aliexpress.us/item/3256807420487972.html
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Exterior PoE

- Enclosure Outdoor Network POE, Telco: 2 Ports. Dimensions Inside: 5 x 4 x 2-inch - https://www.data-alliance.net/enclosure-outdoor-network-poe-telco-2-ports.-dimensions-inside-5-x-4-x-2-inch/
- Sealing Putty (Dum Dum) - https://www.hobartparts.com/sealing-putty-dum-dum-0p--571878
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Mobile Home Lab

Resources

- https://github.com/mozanunal/llm-tools-kiwix - Expose offline Kiwix ZIM archives (like Wikipedia, Stack Exchange, DevDocs) to Large Language Models (LLMs) via the LLM CLI tool and Python library. This plugin allows LLMs to search and read content from your local ZIM files.
- https://github.com/jojo2357/kiwix-zim-updater - A script to check `download.kiwix.org` for updates to your local ZIM library.