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Gadgets

- reTerminal

Encryption

Software

- age - a simple, modern and secure file encryption tool, format, and Go library

Smart Phones

Android Resources

- Lineage 18.x Samsung Device Capatibility

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`

Home Lab

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
-

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
-

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
-

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.
-

Self-Host the Internet

Resources

- Internet in a Box
  - Internet in a Box - Mandela's Library of Alexandria (internet-in-a-box.org)
  - Internet in a Box (iiab.io) - Wiki
- Explore Offline Wikipedia and Educational Content with Kiwix- Kiwix - Browse ZIM files
- HTTrack Website Copier - Free Software Offline Browser (GNU GPL) - It allows you to download a World Wide Web site from the Internet to a local directory

Videos

- self-host the INTERNET! (before it's too late) (youtube.com)
- Easily Build Your Own Offline Internet: Maps, Cloud Storage, Kiwix, LMS & More with Raspberry Pi - YouTube
-

Linux

Linux

Mounting APFS Partition on Linux

Original Version: https://www.baeldung.com/linux/apfs-partition-mount

apfs-fuse

Installation

We'll need to compile the driver from source. For that reason, we'll need to download and install the dependencies first. So, let's go ahead and install them using a package manager.

On Debian, Ubuntu, and Debian-based derivatives, we can use *apt*:

```
$ sudo apt install fuse libfuse3-dev bzip2 libbz2-dev cmake gcc g++ git libattr1-dev zlib1g-dev
```

Similarly, we can use *yum* for Fedora and RHEL distributions:

```
$ sudo apt install fuse fuse3 bzip2 cmake gcc g++ git libattr zlib
```

Next, let's clone the repository into an empty directory:

```
$ git clone https://github.com/sgan81/apfs-fuse
```

Then, we initialize the submodule:

```
$ cd apfs-fuse && git submodule update --init
```

Now, we're ready to compile the driver:

```
$ mkdir build && cd build && cmake .. && make
```

Alternatively, the driver is also available on the Fedora package repository under the canonical name *apfs-fuse*.

Once the driver is installed, let's verify it:

```
$ whereis apfs-fuse
apfs-fuse: /usr/bin/apfs-fuse
```

Mounting APFS Drive

apfs-fuse follows the Linux convention for mounting and unmounting filesystems:

```
$ mount <DEVICE> <MOUNT_PATH>
```

With that in mind, let's mount an APFS drive using the *apfs-fuse* helper:

```
$ apfs-fuse /dev/sdd1 /mnt/apfs-data
```

Similarly, **we can specify the mount options using *-o***:

```
$ mount -o allowother /dev/sdd1 /mnt/apfs-data
```

Unmounting APFS Drive

In the same way, we can unmount the partition as root using *umount*:

```
$ umount /mnt/apfs-data
```

As a user, we can use the *fusermount* utility:

```
$ fusermount -u /mnt/apfs-data
```