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
```

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