

BTRFS subvolumes

```
btrfs subvolume create /BTRFS/sub1
btrfs subvolume create /BTRFS/sub2
btrfs subvolume create /BTRFS/sub3
```

```
btrfs subvolume list /BTRFS
ID 256 gen 234 top level 5 path sub1
ID 257 gen 227 top level 5 path sub2
ID 258 gen 228 top level 5 path sub3
```

Mount subvolume

```
mount -o subvol=sv1/sv12 /dev/sdb /mnt
```

Getting data size on each subvolume:

- Enable quota on btrfs `btrfs quota enable /`
- Install script <https://github.com/agronick/btrfs-size>

Mixed mount options

NOT SUPPORTED YET:

In general, btrfs doesn't yet have the runtime infrastructure to handle per-subvolume mount options. The on-device format and general approach in the kernel was designed to allow it, and it's on the roadmap, it just hasn't been done... yet.

To make workaround it is possible to use attributes on files or directories:

- C disable COW feature (for newly created directories or zero sized files). New files in directories with C attributes will be created with C attrib. But not subdirectories.
- c enable compression

Move data between subvolumes

See `cp` command arg:

When `--reflink[=always]` is specified, perform a lightweight copy, where the data blocks are copied only when modified. If this is not possible the copy fails, or if `--reflink=auto` is specified, fall back to a standard copy.

```
cp -pr --reflink=always srcDirectory dstDirectory/
rm -r srcDirectory
```

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