

Btrfs

- list available devices

```
btrfs device scan
```

- list available filesystems

```
btrfs filesystem show
```

- create volume

```
mkfs.btrfs /dev/sdX
```

- **stripe** across devices (mirror metadata + stripe data)

```
mkfs.btrfs /dev/sda /dev/sdb /dev/sdc
```

- **stripe** across devices (stripe metadata + stripe data)

```
mkfs.btrfs -m raid0 /dev/sda /dev/sdb /dev/sdc
```

- **mirror** across devices (mirror metadata + mirror data)

```
mkfs.btrfs -m raid10 -d raid10 /dev/sda /dev/sdb /dev/sdc
```

- create subvolume

```
btrfs subvolume create /mnt/nonsense
```

where /mnt is the mountpoint of the btrfs volume

- list subvolumes

```
btrfs subvolume list /mnt
```

- create snapshot

```
mkdir /mnt/snapshots
```

```
btrfs subvolume snapshot /mnt/nonsense /mnt/snapshots/vrijdag
```

- add a new device

```
btrfs device add /dev/sda8 /mnt
```

- remove a device

```
btrfs delete /dev/sdb /mnt
```

- free space:

```
btrfs fi df /
```

- show snapshots

```
snapper list
```

- delete all snapshots

```
for i in {1..20000}; do snapper delete $i; done
```

2015:

- balance om ruimte vrij te maken:

```
btrfs balance start /tmp/bla
```

als geen ruimte vrij:

```
btrfs balance start -usage=50 -dusage=50 /tmp/bla
```

```
btrfs fi show /tmp/bla
```

```
btrfs fi df /tmp/bla
```

Onderhoud:

btrfs scrub is used to scrub a btrfs filesystem, which will read all data and metadata blocks from all devices and verify checksums. Automatically repair corrupted blocks if there's a correct copy available.

```
btrfs scrub start -B /tmp/bla
```

```
fstrim /tmp/bla
```

for conventiaonal HD's:

```
btrfs filesystem defragment /tmp/mnt/bla
```

recursief een directory:

```
btrfs filesystem defragment -r /tmp/mnt/bla
```

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