

SWAP on Btrfs

SWAP on BTRFS is supported since Kernel 5.0.7. SWAP cannot be located on snapshoted volume. The best is to create separate volume for swap file.

Get top level ID of BTRFS:

```
btrfs sub list /

ID 256 gen 394 top level 5 path @
ID 258 gen 401 top level 5 path @home
...
```

Create non-compressed, no COW, no snapshoted swap file:

```
mkdir -p /mnt/btrfs
mount -o subvol=id=5 /dev/... /mnt/btrfs
cd /mnt/btrfs
btrfs sub create @swap
cd @swap

truncate -s 0 ./swapfile
chattr +C ./swapfile
btrfs property set ./swapfile compression none

fallocate --length 8.2GB swapfile
chown root swapfile
chmod 600 swapfile
mkswap swapfile
swapon swapfile
swapoff swapfile

umount /mnt/btrfs
```

Create mount point:

```
mkdir /.swap
```

Adapt fstab:

UUID=1cf7e34b-8b09-45bd-80ae-f4658b3e0509	/.swap	btrfs		
compress=none,nodatacow,noatime,subvol=@swap				
/.swap/swapfile	none	swap	defaults	

add resume in swap file

```
RESUME=/.swap/swapfile
```

```
update-initramfs -k all -u
```

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