

# UUID Information

## Be aware of UUID

UUID stands for Universally Unique IDentifier of a partition. This ID is used in few different places to identify the partition. Most commonly this would be /etc/fstab.

## UUID vs PARTUUID

- **UUID** is a *filesystem-level* UUID, which is retrieved from the filesystem metadata inside the partition. It can only be read if the filesystem type is known and readable.
- **PARTUUID** is a *partition-table-level* UUID for the partition, a standard feature for all partitions on GPT-partitioned disks.

UUIDs are not hardware-specific but stored in the partition's filesystem. That means cloning a disk or partition with dd will result in the same UUID. However recreating the partitions manually on the new disk (e.g. smaller disk), will result in new UUID. This could result in problems when booting the new disk uses UUID in fstab.

```
cat /etc/fstab
# /etc/fstab: static file system information.
# <file system> <mount point> <type> <options> <dump> <pass>
# / was on /dev/sda3 during installation
UUID=b2fa29ee-670f-4d44-becc-d9ec368d4a41 / ext4
noatime,nodiratime,errors=remount-ro 0 1
```

This can be solved by either changing the entries in fstab to the old style: /dev/dbX, Or by getting the new UUID and update fstab accordingly:

```
# blkid /dev/sdb1
/dev/sdb1: UUID="34628ffd-58e6-4a58-9b4d-533719305931" TYPE="ext4"
PARTUUID="fa64ccff-01"
```

Assign UUID to partition using tune2fs.

```
$ sudo tune2fs /dev/sdb1 -U 39ea80c4-e748-47eb-835c-64025de53e26 tune2fs 1.44.6 (5-Mar-2019)
Setting the UUID on this filesystem could take some time. Proceed anyway (or wait 5 seconds to
proceed) ? (y,N) y
```

Check if UUID is properly assigned to the partition.

```
$ sudo blkid /dev/sdb1 /dev/sdb1: UUID="39ea80c4-e748-47eb-835c-64025de53e26" TYPE="ext4"
PARTUUID="2c6a7a3a-01"
```

How to Change UUID of Your Filesystems

Changing UUID of a filesystem is fairly easy. To do this, we are going to use tune2fs. For the purpose of this tutorial, I will change the UUID on my second partition /dev/sdb1, yours may vary, thus make sure you are changing the UUID of the desired filesystem.

The partition has to be unmounted prior apply the new UUID:

```
# umount /dev/sdb1 # tune2fs -U random /dev/sdb1 # blkid | grep sdb1
```

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