

# btrfs-replace(8)

## SYNOPSIS

**btrfs replace** <subcommand> <args>

## DESCRIPTION

**btrfs replace** is used to replace btrfs managed devices with other device.

## SUBCOMMAND


**cancel** <mount\_point>

Cancel a running device replace operation.

**start** [options] <srcdev><devid> <targetdev> <path>

Replace device of a btrfs filesystem.

On a live filesystem, duplicate the data to the target device which is currently stored on the source device. If the source device is not available anymore, or if the `-r` option is set, the data is built only using the RAID redundancy mechanisms. After completion of the operation, the source device is removed from the filesystem. If the *srcdev* is a numerical value, it is assumed to be the device id of the filesystem which is mounted at *path*, otherwise it is the path to the source device. If the source device is disconnected, from the system, you have to use the devid parameter format. The *targetdev* needs to be same size or larger than the *srcdev*.

 **Note**

The filesystem has to be resized to fully take advantage of a larger target device; this can be achieved with `btrfs filesystem resize <devid>:max /path`

### Options

**-r**

only read from *srcdev* if no other zero-defect mirror exists. (enable this if your drive has lots of read errors, the access would be very slow)

**-f**

force using and overwriting *targetdev* even if it looks like it contains a valid btrfs filesystem.

A valid flesystem is assumed if a btrfs superblock is found which contains a correct checksum. Devices that are currently mounted are never allowed to be used as the *targetdev*.

**-B**

no background replace.

**--enqueue**

wait if there's another exclusive operation running, otherwise continue

**-K|--nodiscard**

Do not perform whole device TRIM operation on devices that are capable of that. This does not affect discard/trim operation when the filesystem is mounted. Please see the mount option *discard* for that in [btrfs\(5\)](#).

**status** [-1] <mount\_point>

Print status and progress information of a running device replace operation.

### Options

**-1**

print once instead of print continuously until the replace operation finishes (or is cancelled)

## EXAMPLES

### Replacing an online drive with a bigger one

Given the following filesystem mounted at `/mnt/my-vault`

```
Label: 'MyVault'   uuid: ae20903e-b72d-49ba-b944-901fc6d888a1
Total devices 2  FS bytes used 1TiB
devid    1 size 1TiB used 500.00GiB path /dev/sda
devid    2 size 1TiB used 500.00GiB path /dev/sdb
```

In order to replace `/dev/sda` (*devid 1*) with a bigger drive located at `/dev/sdc` you would run the following:

```
btrfs replace start 1 /dev/sdc /mnt/my-vault/
```

You can monitor progress via:

```
btrfs replace status /mnt/my-vault/
```

After the replacement is complete, as per the docs at [btrfs-fsfilesystem\(8\)](#) in order to use the entire storage space of the new drive you need to run:

```
btrfs filesystem resize 1:max /mnt/my-vault/
```

## EXIT STATUS

**btrfs replace** returns a zero exit status if it succeeds. Non zero is returned in case of failure.

## AVAILABILITY

**btrfs** is part of btrfs-progs. Please refer to the documentation at <https://btrfs.readthedocs.io>.

## SEE ALSO

[btrfs-device\(8\)](#), [btrfs-fsfilesystem\(8\)](#), [mkfs.btrfs\(8\)](#)