

# ZFS: resize zpool

## extend pool

Get device name used in pool:

```
zpool status nvmpool
```

```
# resize /dev/nvme0n1p3  
parted /dev/nvme0n1
```

```
resizepart 3  
End ? [X.XGB]?  
quit
```

```
zpool online -e nvmpool nvme0n1p3
```

## ZFS: shrink zpool

Shrinking of zpool is not possible, but trick with 2nd device (or even file) works:

- add 2nd device to zpool (can be smaller - only to fit data)
- remove 1st device - zpool will copy all data to another device.
- to create mirror, use attach not add

```
zpool list rpool -v  
zpool offline rpool /dev/disk/by-id/SECOND-part3  
zpool detach rpool /dev/disk/by-id/SECOND-part3
```

Resize /dev/disk/by-id/SECOND-part3 to smaller size.

```
zpool add rpool /dev/disk/by-id/SECOND-part3  
zpool remove rpool /dev/disk/by-id/FIRST-part3
```

Sometimes ZFS refuse to remove device with 'out of space' error (but second device is capable to handle all data). To solve it, add more temporary devices to rpool

```
zfs create -V 64gb nvmpool/t1  
zfs create -V 64gb nvmpool/t2  
zpool add rpool /dev/zvol/nvmpool/t1  
zpool add rpool /dev/zvol/nvmpool/t2
```

Resize /dev/disk/by-id/FIRST-part3 to smaller but equal to SECOND-part3 size.

```
zpool attach rpool /dev/disk/by-id/SECOND-part3 /dev/disk/by-id/FIRST-part3
```

zpool attach rpool /dev/dusk/by-id existing disk

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