

Create ZFS Raid Mirror with One Disk - Degraded - Missing

I read conflicting statements online, using "fake files" but that didn't work for me as I only wanted to create w/ 1 disk. You can only CREATE w/ 1 disk w/ striped. The you attached another disk later and switch to mirrored.

Best Source <https://blog.fosketts.net/2017/12/11/add-mirror-existing-zfs-drive/>

Create Pool w/ 1 disk:

```
poolname=bigdatab
dev=/dev/sdb1
mount=/mnt/zfs/$poolname
zpool create -f $poolname $dev -o ashift=12 -m $mount
zpool status
```

Using Fake File Notes: Didn't work, but I'm keeping notes...

<https://blog.chaospixel.com/linux/2017/08/zfs-create-pool-with-missing-devices.html>

<https://docs.oracle.com/cd/E19253-01/819-5461/gazgm/index.html>

Note: ZFS is very picky each drive/partition must be exact same size so I always make partition a bit smaller.

Find Real HDD Size:

```
/mnt/hdd# df | grep sdb
/dev/sdb1      3627506976    70780 3443099812   1% /mnt/hdd/sdb
```

Set Variables:

```
poolname=bigdatac
dev=/dev/sdc1
fakefile=/mnt/hdd/sdc/sdc1_sparse.img
filesize=3627506976
mount=/mnt/zfs/$poolname
```

Create:

```
truncate -s $filesize $fakefile
zpool create -f $poolname $dev $fakefile -o ashift=12 -m $mount
mv $fakefile $fakefile.bak
zpool status $poolname
```

Note:

- #zpool offline \$poolname \$fakefile #didn't work for me