

lvm

Check the physical volumes

```
pvs
```

PV	VG	Fmt	Attr	PSize	PFree
/dev/sda3	ubuntu-vg	lvm2	a--	<2.73t	0

Check the volume groups

```
vgs
```

VG	#PV	#LV	#SN	Attr	VSize	VFree
ubuntu-vg	1	2	0	wz--n-	<2.73t	0

Check the logical volumes

```
lvs
```

LV	VG	Attr	LSize	Pool	Origin	Data%	Meta%	Move	Log	Cpy%	Sync	Convert
plot01	ubuntu-vg	-wi-ao----	2.53t									
ubuntu-lv	ubuntu-vg	-wi-ao----	200.00g									

Display volume group details

```
vgdisplay
```

```
--- Volume group ---
VG Name                ubuntu-vg
System ID
Format                 lvm2
Metadata Areas         1
Metadata Sequence No  3
VG Access              read/write
VG Status              resizable
MAX LV                 0
Cur LV                2
```

Open LV	2
Max PV	0
Cur PV	1
Act PV	1
VG Size	<2.73 TiB
PE Size	4.00 MiB
Total PE	715140
Alloc PE / Size	715140 / <2.73 TiB
Free PE / Size	0 / 0
VG UUID	rY8uzZ-2Xrc-TdNR-l0Wt-Fr40-uAKY-H0UsRs

Create the additional logical volume

```
lvcreate -l 663940 -n plot01 ubuntu-vg
```

Create filesystem

```
mkfs.ext4 /dev/ubuntu-vg/plot01
```

Get the new UUID

```
blkid
```

```
/dev/mapper/ubuntu--vg-plot01: UUID="3107980c-8ee0-4f63-adeb-2d0f50fe2f5c" TYPE="ext4"
```

Add it to fstab

```
vim /etc/fstab
```

```
UUID=3107980c-8ee0-4f63-adeb-2d0f50fe2f5c /home/chia/chia/chia-blockchain/plot01 ext4  
errors=remount-ro          0          1
```

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