

# SOFTWARE RAID

Guided storage configuration

[ Help ]

Configure a guided storage layout, or create a custom one:

( ) Use an entire disk

[ /dev/vda local disk 25.000G ▼ ]

[X] Set up this disk as an LVM group

[ ] Encrypt the LVM group with LUKS

Passphrase:

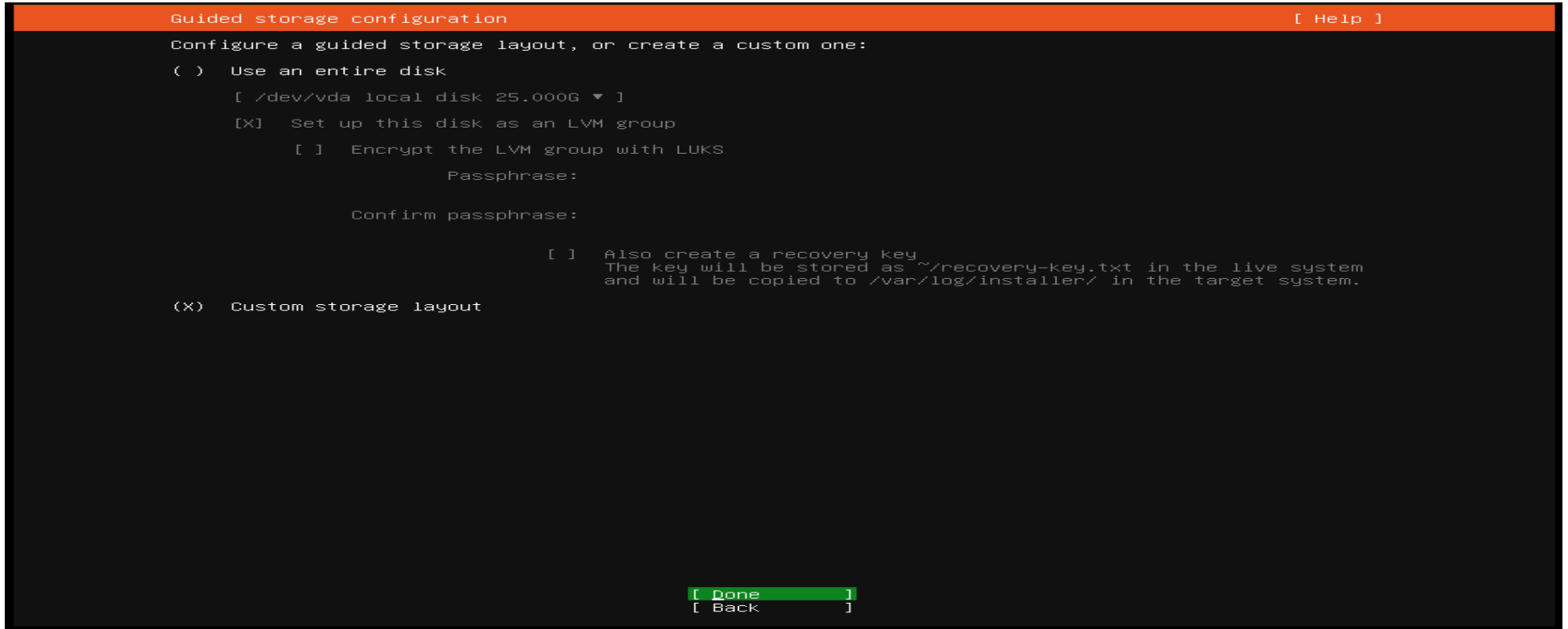
Confirm passphrase:

[ ] Also create a recovery key  
The key will be stored as ~/recovery-key.txt in the live system  
and will be copied to /var/log/installer/ in the target system.

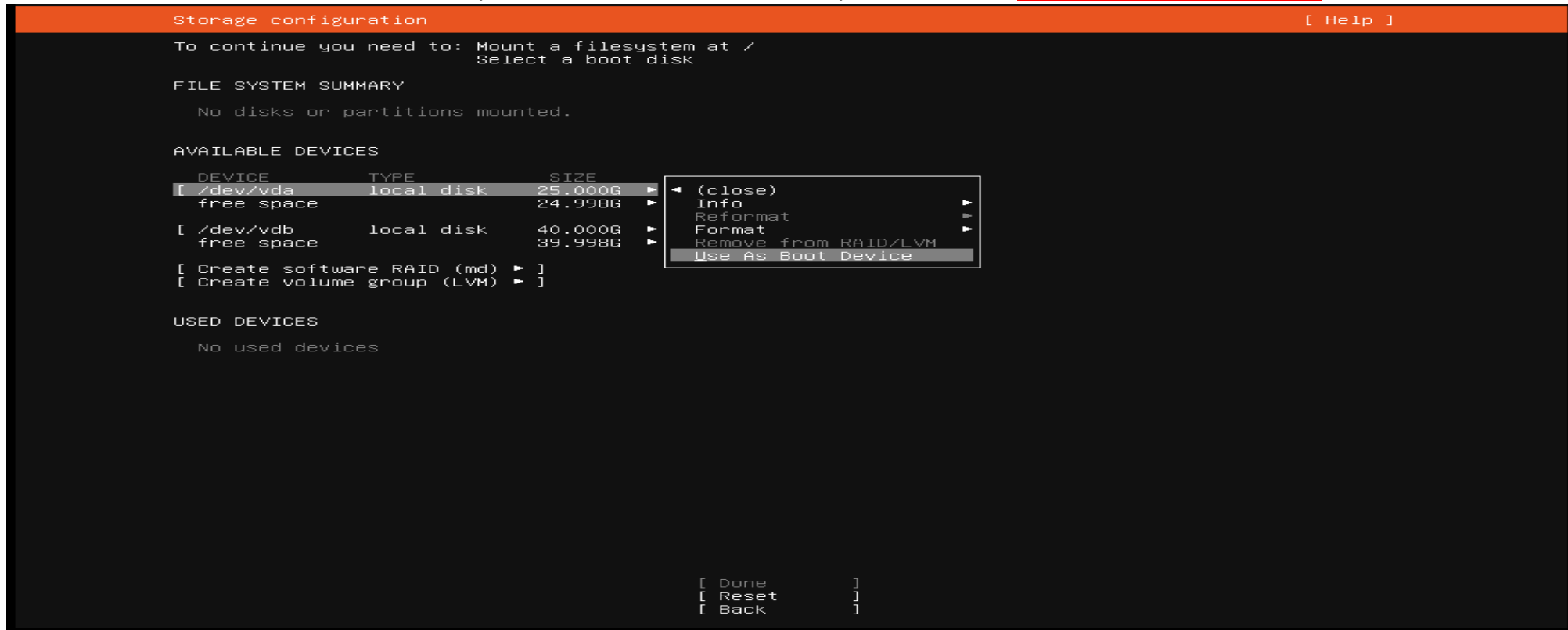
(X) Custom storage layout

[ Done            ]  
[ Back           ]

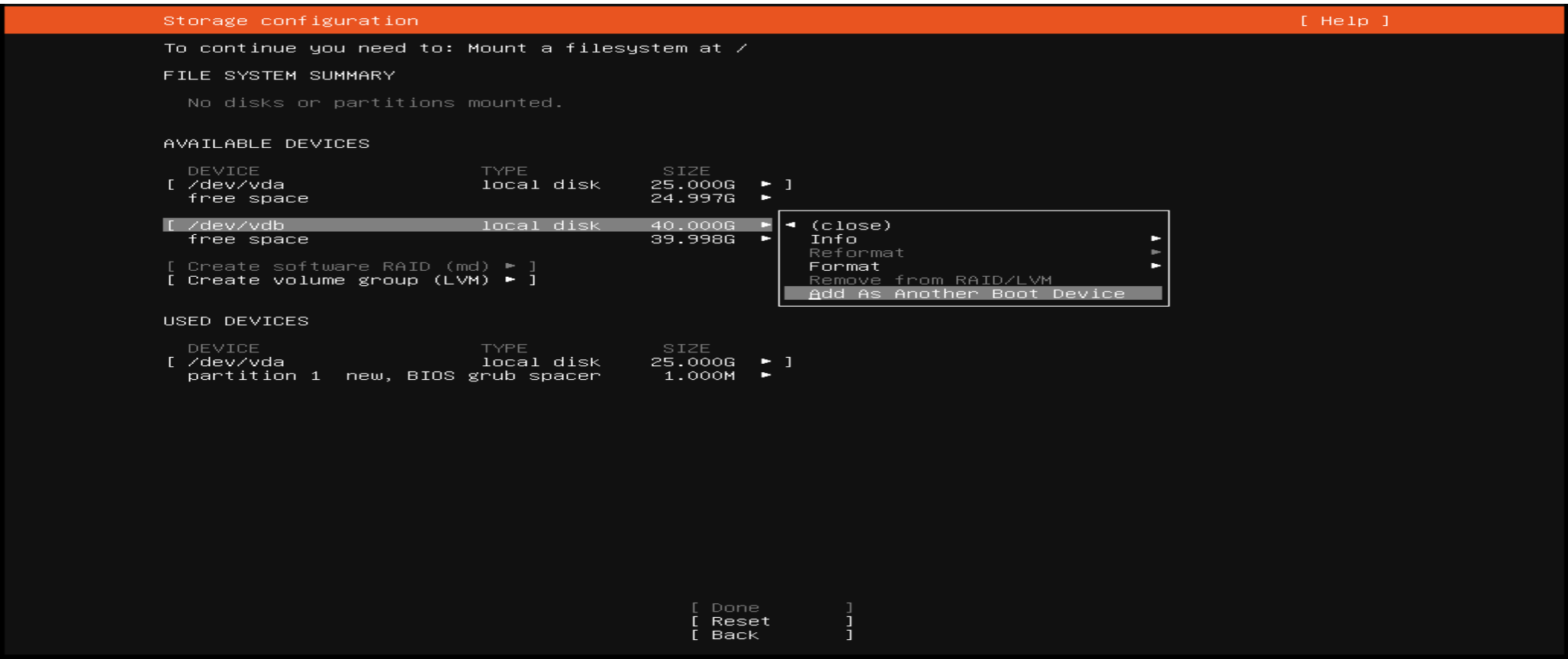
- In above image we have to select **custom storage layout** and --> done --> Enter



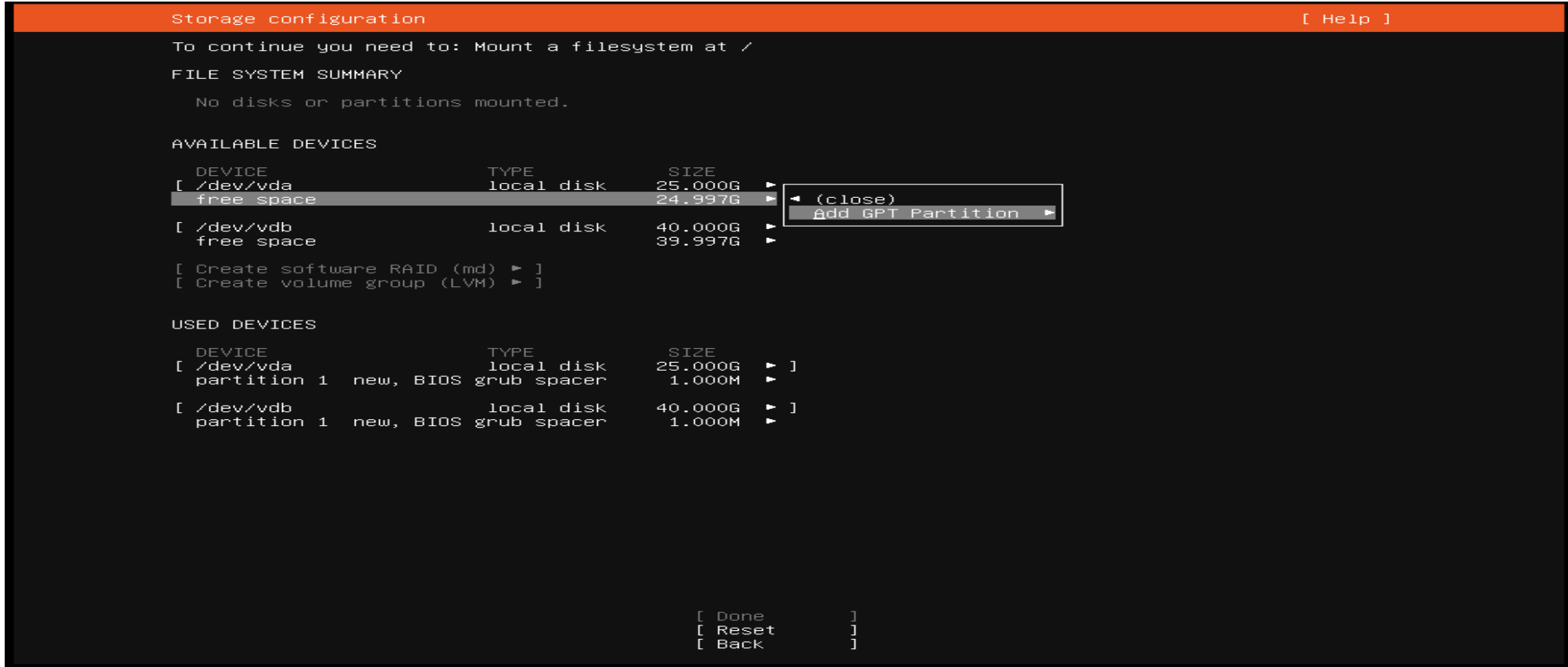
- On first disk `/dev/vda` --> press enter on this line --> in drop down select , **Use as a boot device** -> enter
- Same as second disk `/dev/vdb` --> press enter on this line --> in drop down select , **add another boot as device** --> enter



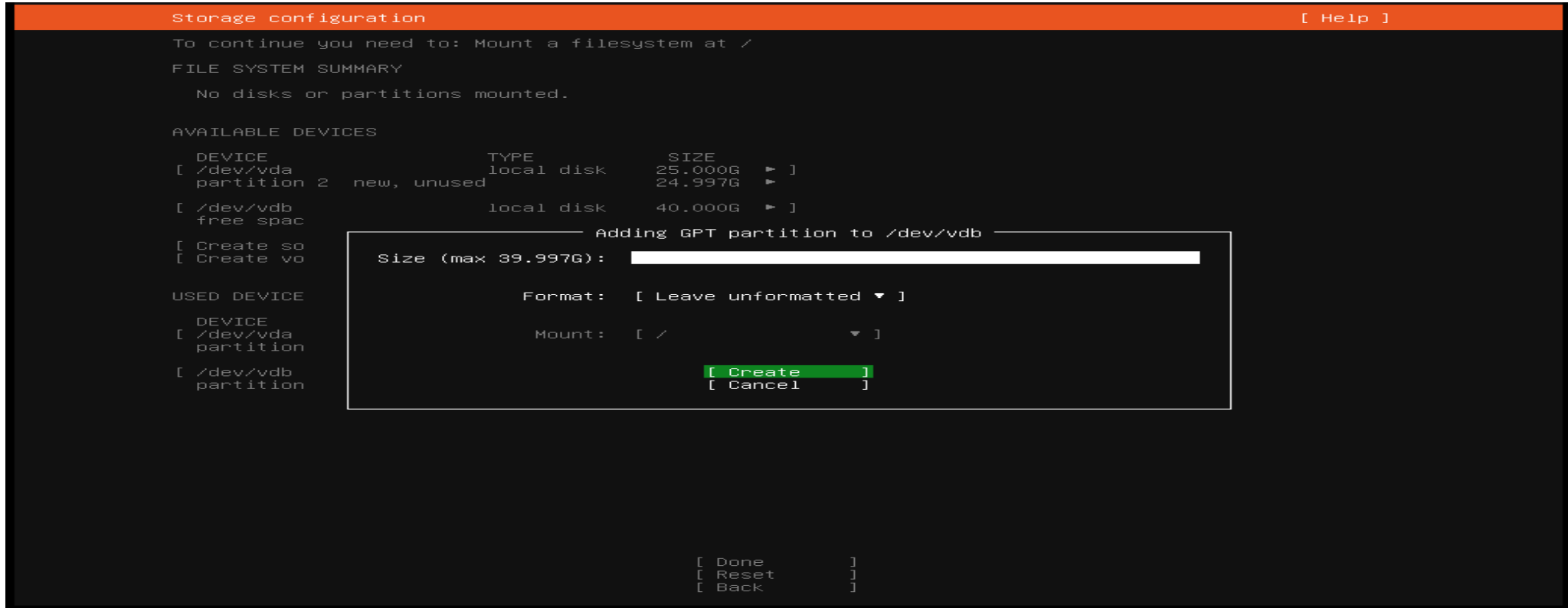
- This is on second disk.



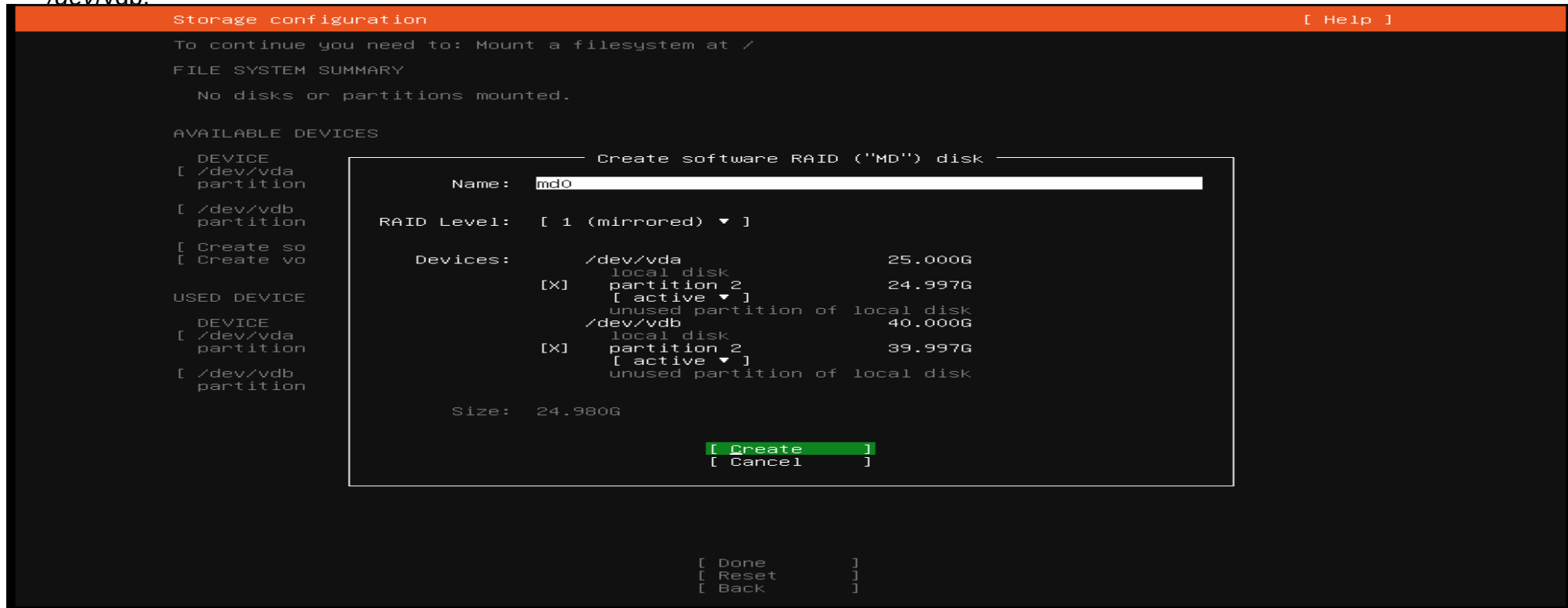
- Now enter free space of disk `/dev/vda` --> in drop down --> Add GPT partition -->enter .



- Like this in GPT partition take full size -> format = Leave unformatted --> create and do same as on second disk.



- Now select option – Create software Raid(md) --> enter --> in this section you can see like this.here give the name of raid – select raid level – and select partition just you have created in above steps(GPT PARTITION) , like here partition2 on /dev/vda and partition2 on /dev/vdb.



- Now in earlier steps you have created RAID so in next step , we will create volume group --> so click on Create volume group(LVM).

```
Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

  No disks or partitions mounted.

AVAILABLE DEVICES

  DEVICE                                TYPE                                SIZE
  [ md0 (new, unused)                   Software RAID 1                     24.980G ▶ ]
    free space                           24.978G ▶ ]

  [ Create Software RAID (md) ▶ ]
  [ Create volume group (LVM) ▶ ]

USED DEVICES

  DEVICE                                TYPE                                SIZE
  [ /dev/vda                             local disk                          25.000G ▶ ]
    partition 1 new, BIOS grub spacer    1.000M ▶ ]
    partition 2 new, component of software RAID 1 md0 24.997G ▶ ]

  [ /dev/vdb                             local disk                          40.000G ▶ ]
    partition 1 new, BIOS grub spacer    1.000M ▶ ]
    partition 2 new, component of software RAID 1 md0 39.997G ▶ ]

[ Done      ]
[ Reset     ]
[ Back      ]
```



- When you enter at create volume group(LVM)--then slide will open. Here you give volume group name(any) and select Raid you have just created in above steps , like md0 --> select this and create.

Storage configuration

[ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

No disks or partitions mounted.

AVAILABLE D

DEVICE

[ md0 (new, free spac

[ Create so

[ Create vo

USED DEVICE

DEVICE

[ /dev/vda partition

[ /dev/vdb partition

Create LVM volume group

Name: vgo

Devices: [X] md0 24.980G  
unused software RAID 1

Size: 24.976G

[ ] Create encrypted volume

Passphrase:

Confirm passphrase:

[ ] Also create a recovery key:  
The key will be stored as  
~/recovery-key-{name}.txt in the live system  
and will be copied to /var/log/installer/ in  
the target system.

[ Create ]

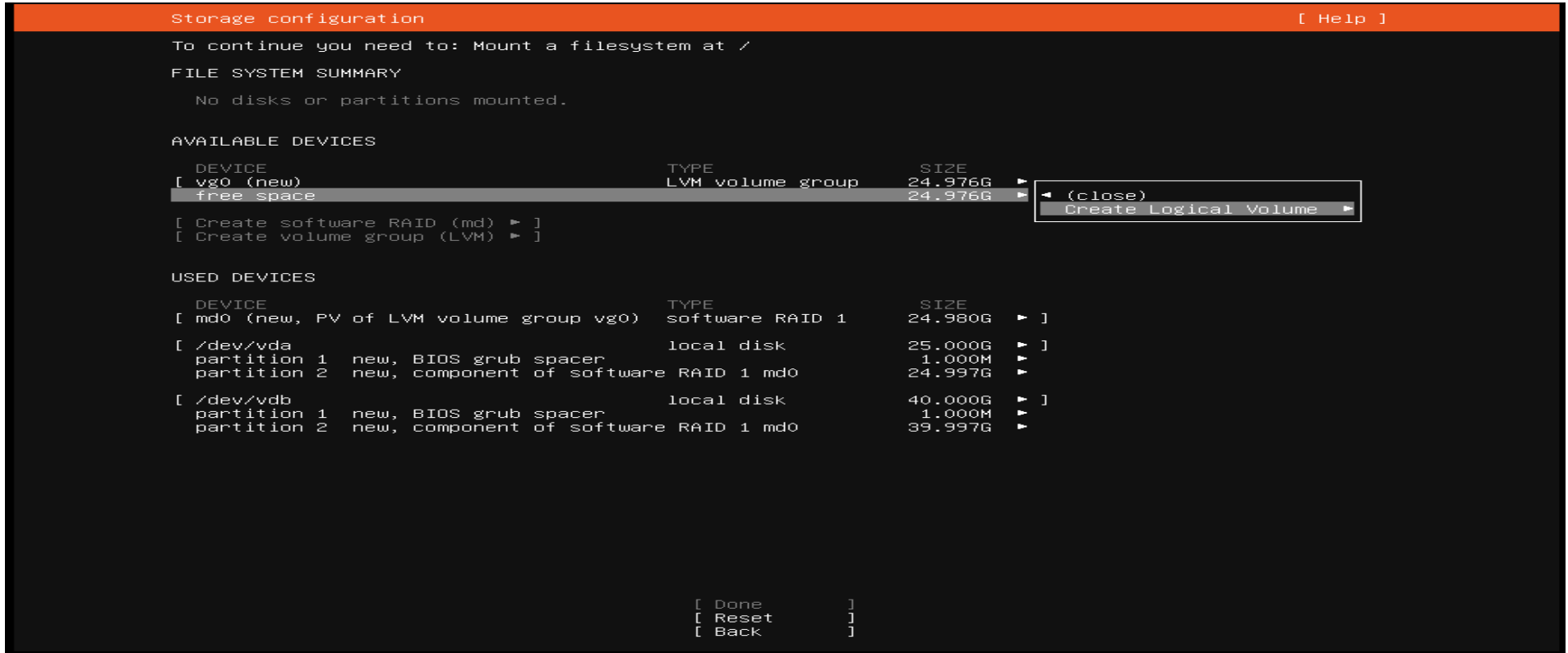
[ Cancel ]

[ Done ]

[ Reset ]

[ Back ]

- Now click on the free space of Volume group that you just have created, and click on --> create logical volume -> enter.



- Now here give the logical volume name, eg=lv0 --> Give size of LV, eg= 23G --> format = ext4 --> mount = /(root) --> this is main partition for os installation. --> and create
- In same manner create different logical volume like name= lv1 --> size = 2G --> format = ext4 --> mount = /boot(select from drop down) --> and create.

Storage configuration

[ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

No disks or partitions mounted.

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ vg0 (new)	LVM volume group	24.976G
free space		24.976G

[ Create so

[ Create vo

USED DEVICE

DEVICE
[ md0 (new,
/dev/vda
partition
partition
/dev/vdb
partition
partition

Adding logical volume to vg0

Name: lv-0

Size (max 24.976G): 23G

Format: [ ext4

Mount: [ /

[ Create

[ Cancel

[ Done

[ Reset

[ Back

- And finally your raid created now you press enter on Done.

```
Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT      SIZE      TYPE      DEVICE TYPE
[ /               23.000G   new ext4   new LVM logical volume ► ]
[ /boot          1.976G   new ext4   new LVM logical volume ► ]

AVAILABLE DEVICES

No available devices

[ Create software RAID (md) ► ]
[ Create volume group (LVM) ► ]

USED DEVICES

DEVICE                                TYPE                                SIZE
[ vgo (new)                          LVM volume group                   24.976G ► ]
lv-0                                new, to be formatted as ext4,      23.000G ►
lv-1                                new, to be formatted as ext4,      1.976G ►
[ md0 (new, PV of LVM volume group vgo) software RAID 1                     24.980G ► ]
[ /dev/vda                            local disk                          25.000G ► ]
partition 1                          new, BIOS grub spacer              1.000M ►
partition 2                          new, component of software RAID 1 md0 24.997G ►
[ /dev/vdb                            local disk                          40.000G ► ]
partition 1                          new, BIOS grub spacer              1.000M ►
partition 2                          new, component of software RAID 1 md0 39.997G ►

[ Done ]
[ Reset ]
[ Back ]
```