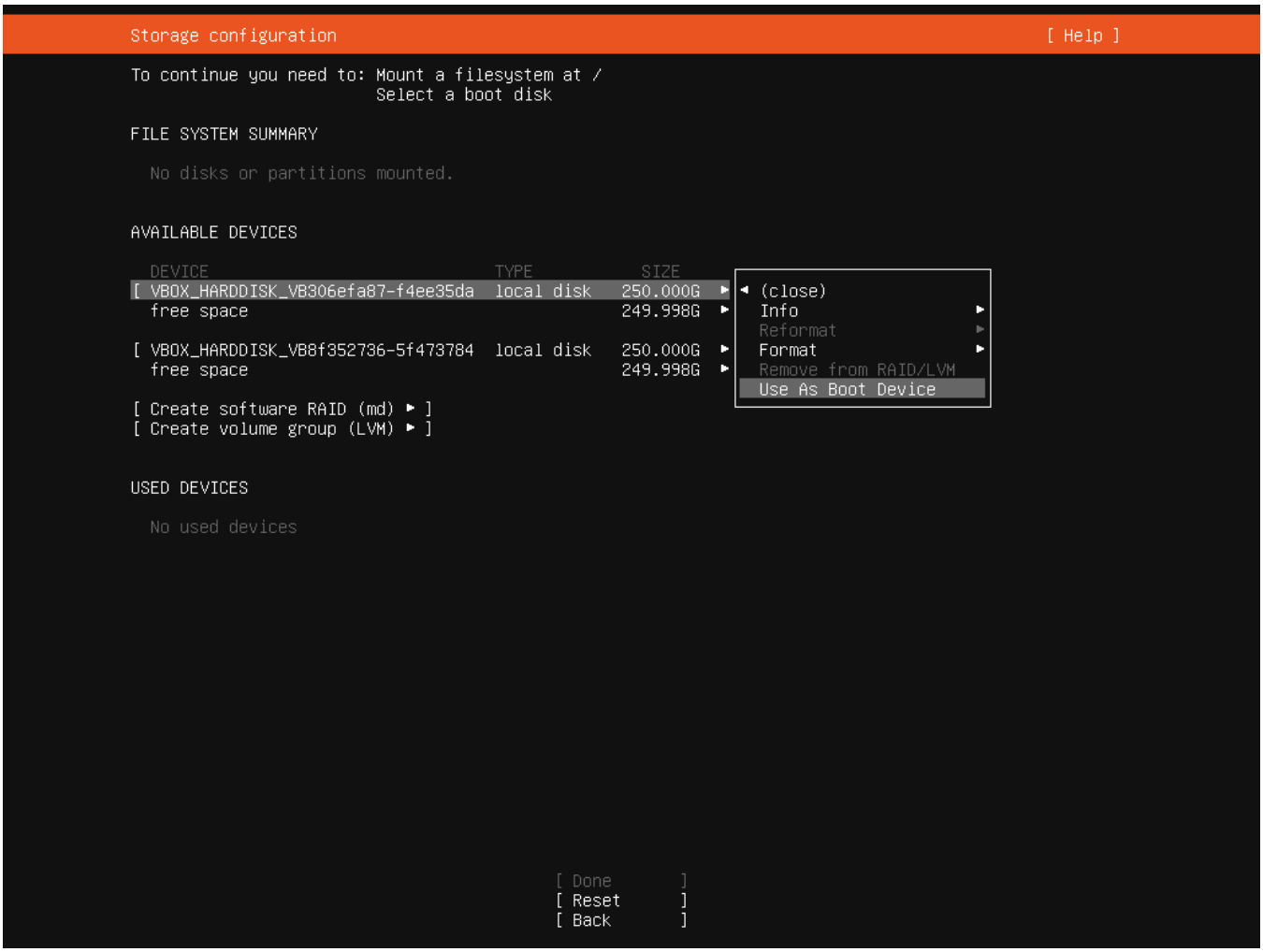
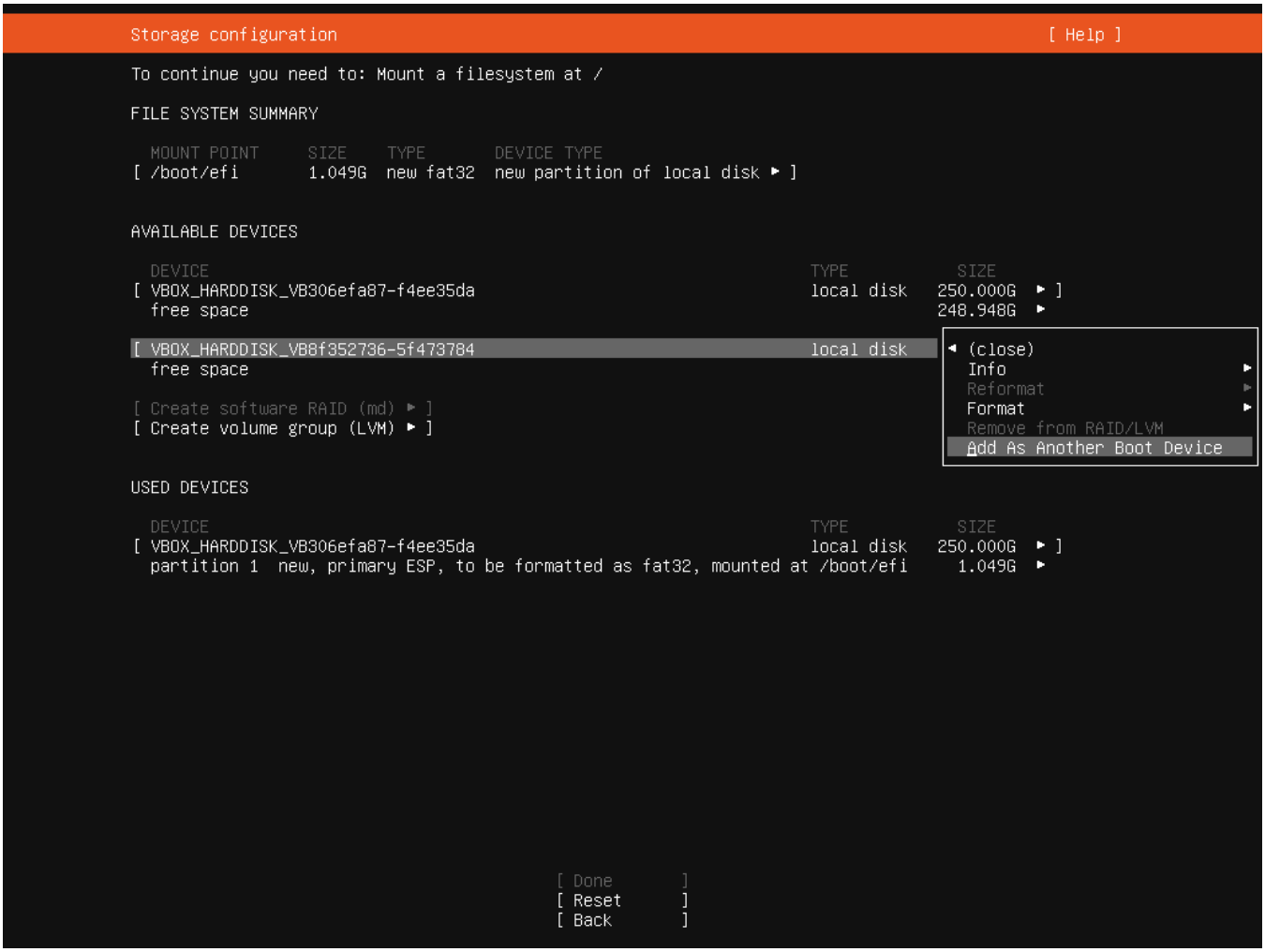
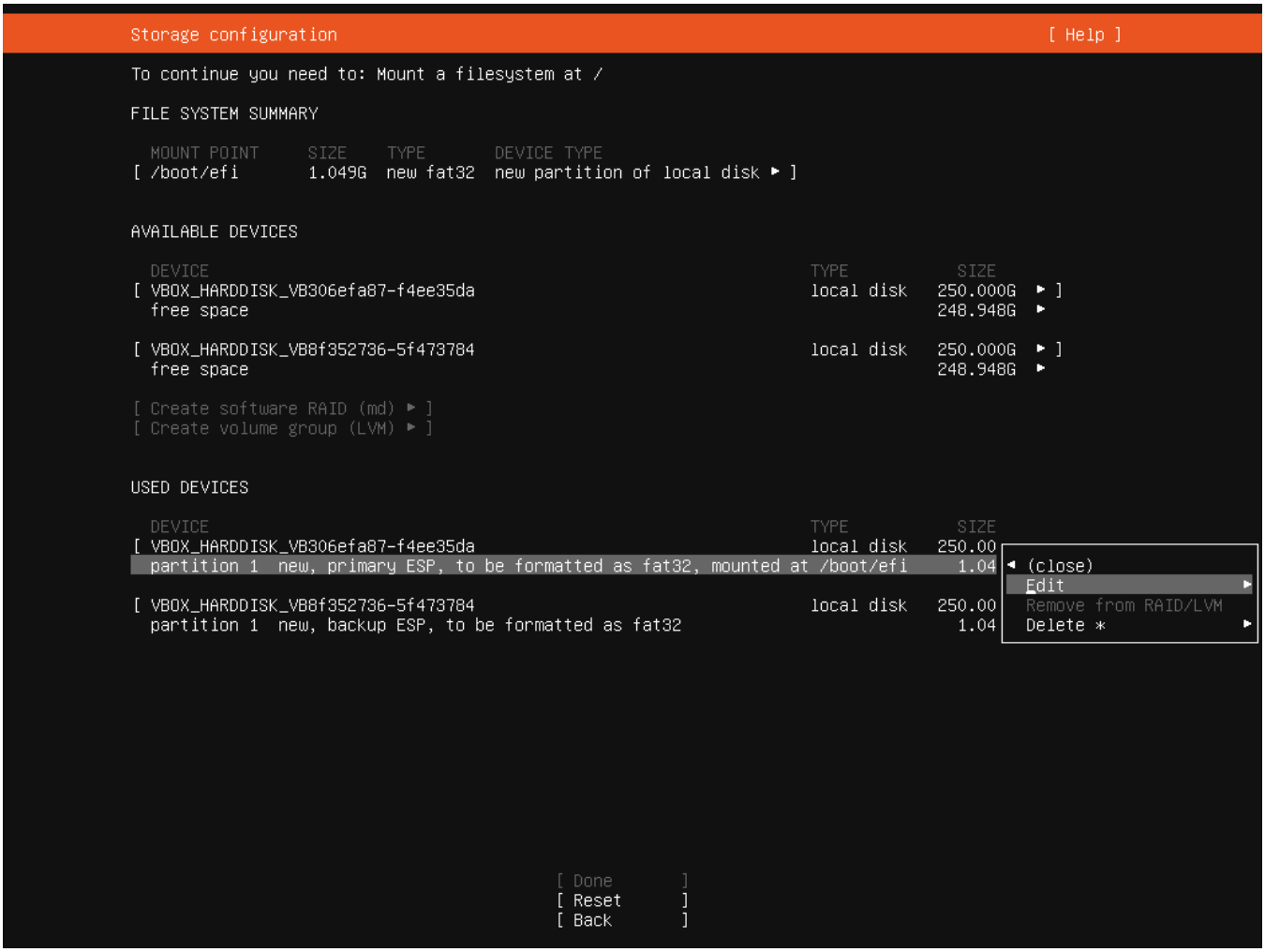
Documentation for Ububtu Server Installation — RAID 1— With Logical Group and followed by Logical Volumes

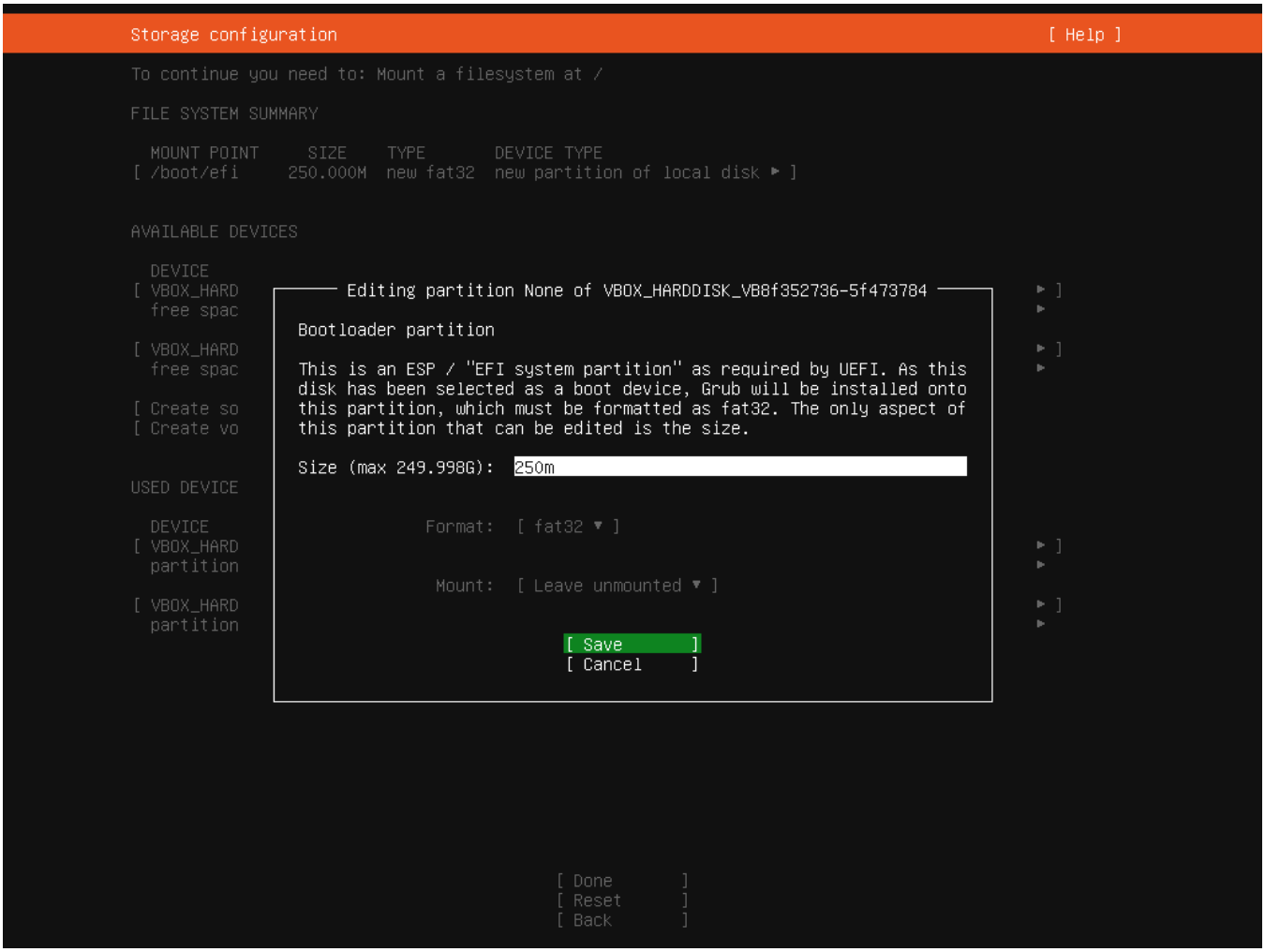
1. **Reformat both the drives (if necessary)***
2. **Mark both drives as boot device**

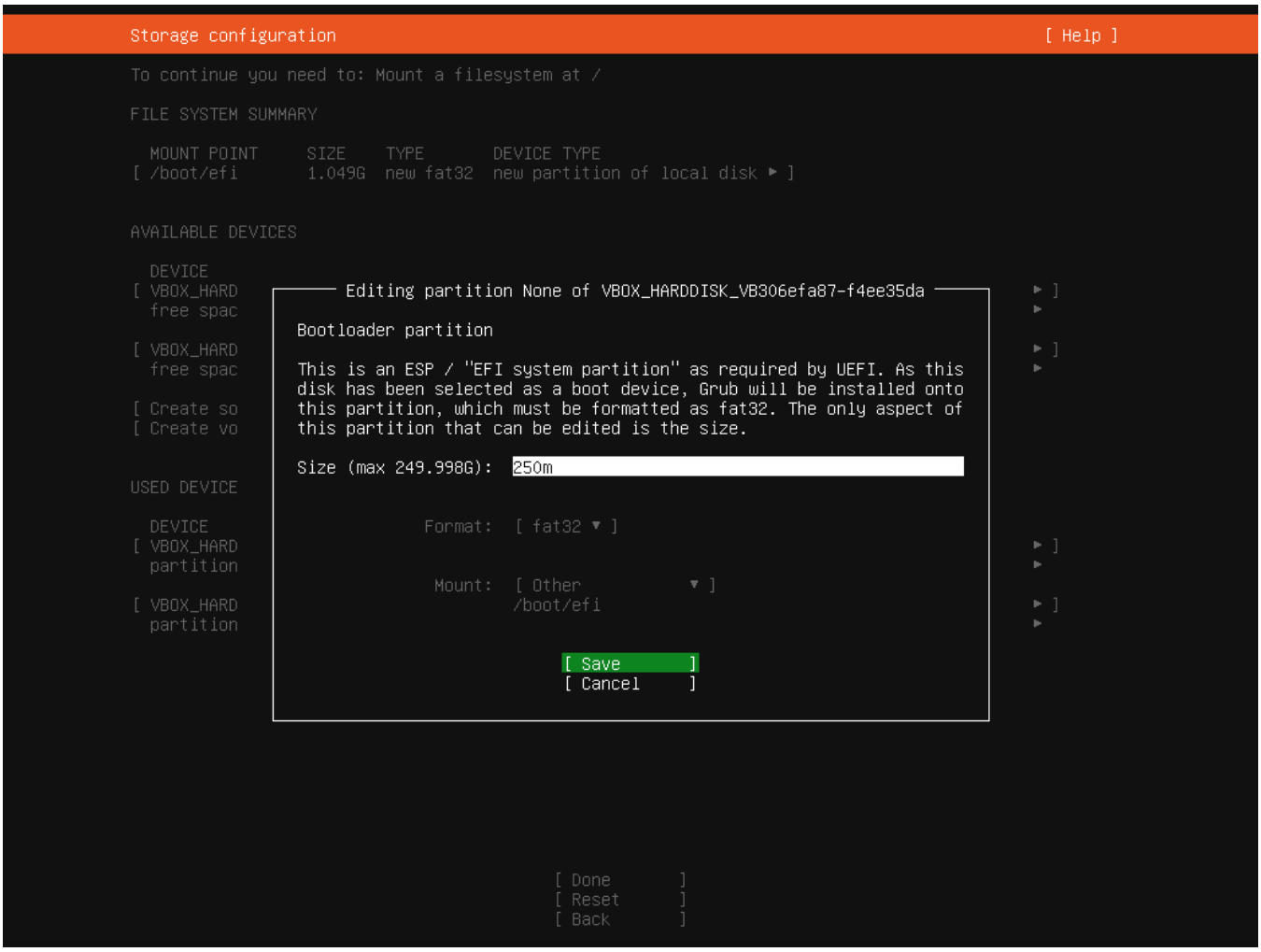




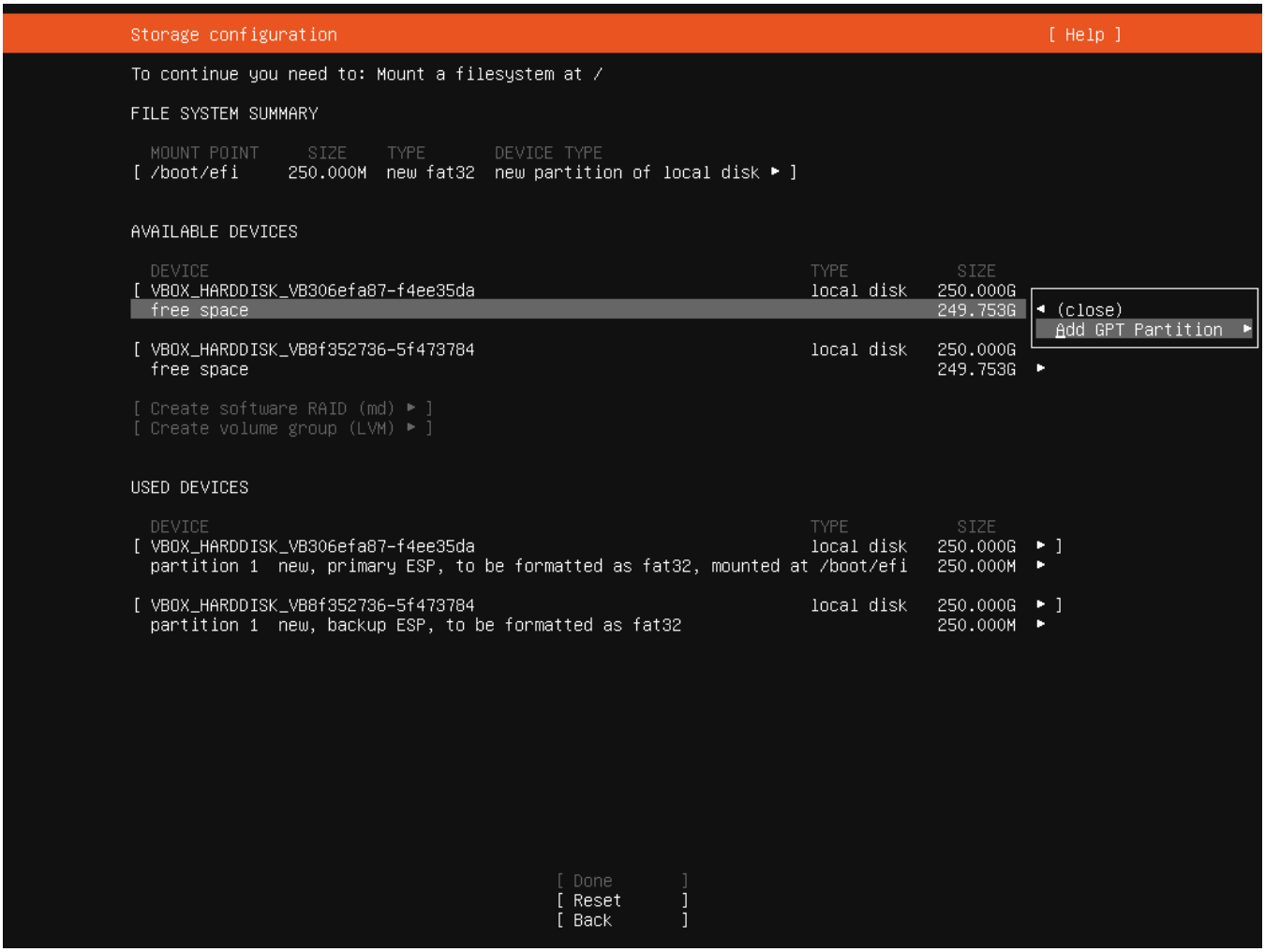
2. Resize EFI boot partition from default 1GB to 250MB for both drives

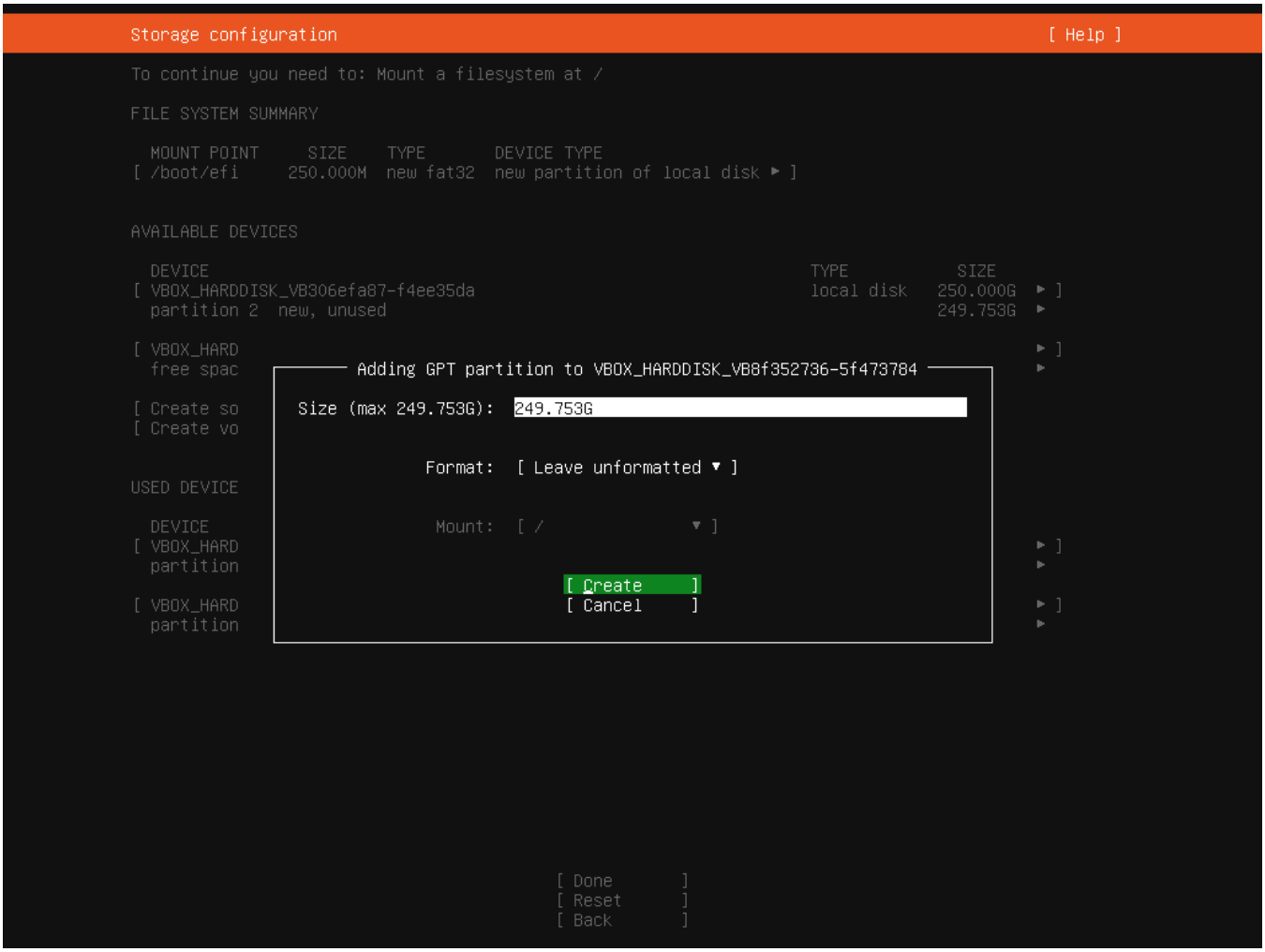

Storage configuration
[Help]
To continue you need to: Mount a filesystem at /
FILE SYSTEM SUMMARY
MOUNT POINT SIZE TYPE DEVICE TYPE
[/boot/efi 1.049G new fat32 new partition of local disk ▸]
AVAILABLE DEVICES
DEVICE TYPE SIZE
[VBOX_HARDDISK_VB306efa87-f4ee35da local disk 250.000G ▸]
free space 248.948G ▸
[VBOX_HARDDISK_VB8f352736-5f473784 local disk 250.000G ▸]
free space 248.948G ▸
[Create software RAID (md) ▸]
[Create volume group (LVM) ▸]
USED DEVICES
DEVICE TYPE SIZE
[VBOX_HARDDISK_VB306efa87-f4ee35da local disk 250.00
partition 1 new, primary ESP, to be formatted as fat32, mounted at /boot/efi 1.04
[VBOX_HARDDISK_VB8f352736-5f473784 local disk 250.00
partition 1 new, backup ESP, to be formatted as fat32 1.04
◂ (close)
Edit ▸
Remove from RAID/LVM
Delete ∗ ▸
[Done]
[Reset]
[Back]

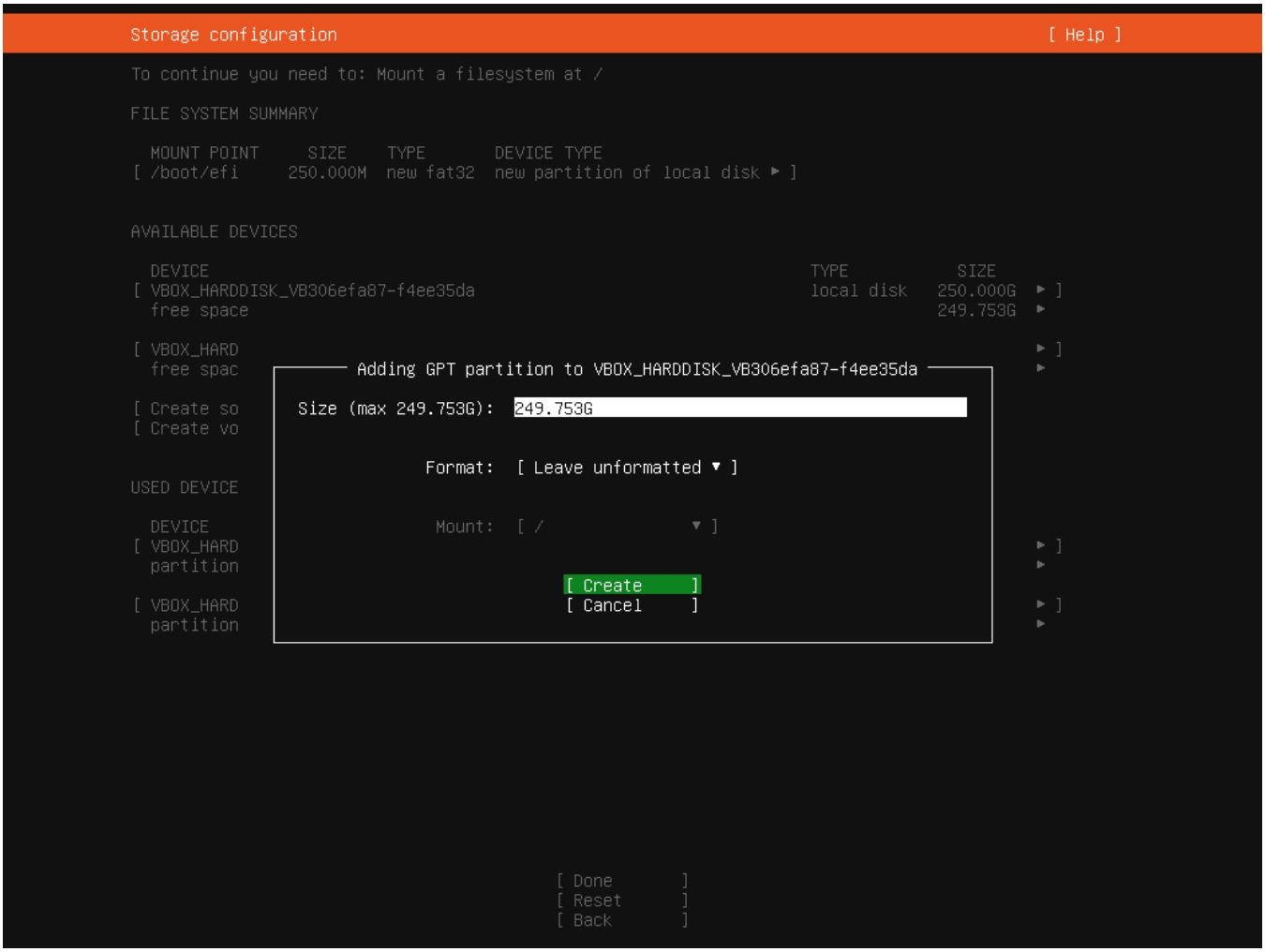

Storage configuration
[Help]
To continue you need to: Mount a filesystem at /
FILE SYSTEM SUMMARY
MOUNT POINT SIZE TYPE DEVICE TYPE
[/boot/efi 250.000M new fat32 new partition of local disk ▸]
AVAILABLE DEVICES
DEVICE
[VBOX_HARD
free spac
[VBOX_HARD
free spac
[Create so
[Create vo
USED DEVICE
DEVICE
[VBOX_HARD
partition
[VBOX_HARD
partition
Editing partition None of VBOX_HARDDISK_VB8f352736-5f473784
Bootloader partition
This is an ESP / "EFI system partition" as required by UEFI. As this disk has been selected as a boot device, Grub will be installed onto this partition, which must be formatted as fat32. The only aspect of this partition that can be edited is the size.
Size (max 249.998G): 250m
Format: [fat32 ▾]
Mount: [Leave unmounted ▾]
[Save]
[Cancel]
[Done]
[Reset]
[Back]



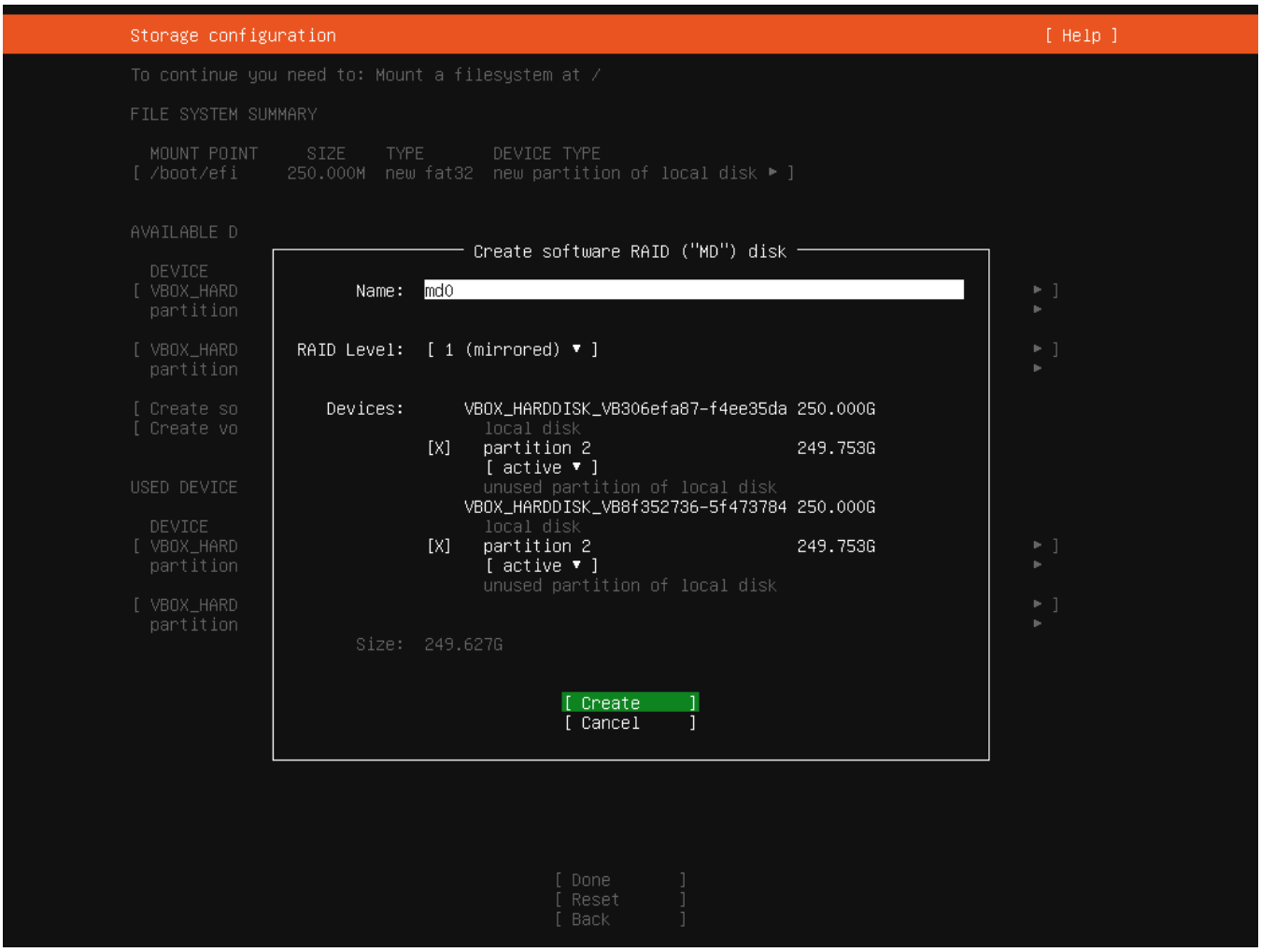
3.Add an GPT partition to both the drives (assign same size and unformated)


Storage configuration
[Help]
To continue you need to: Mount a filesystem at /
FILE SYSTEM SUMMARY
MOUNT POINT SIZE TYPE DEVICE TYPE
[/boot/efi 250.000M new fat32 new partition of local disk ▸]
AVAILABLE DEVICES
DEVICE TYPE SIZE
[VBOX_HARDDISK_VB306efa87-f4ee35da local disk 250.000G
free space 249.753G
[VBOX_HARDDISK_VB8f352736-5f473784 local disk 250.000G
free space 249.753G ▸
[Create software RAID (md) ▸]
[Create volume group (LVM) ▸]
◂ (close)
Add GPT Partition ▸
USED DEVICES
DEVICE TYPE SIZE
[VBOX_HARDDISK_VB306efa87-f4ee35da local disk 250.000G ▸]
partition 1 new, primary ESP, to be formatted as fat32, mounted at /boot/efi 250.000M ▸
[VBOX_HARDDISK_VB8f352736-5f473784 local disk 250.000G ▸]
partition 1 new, backup ESP, to be formatted as fat32 250.000M ▸
[Done]
[Reset]
[Back]

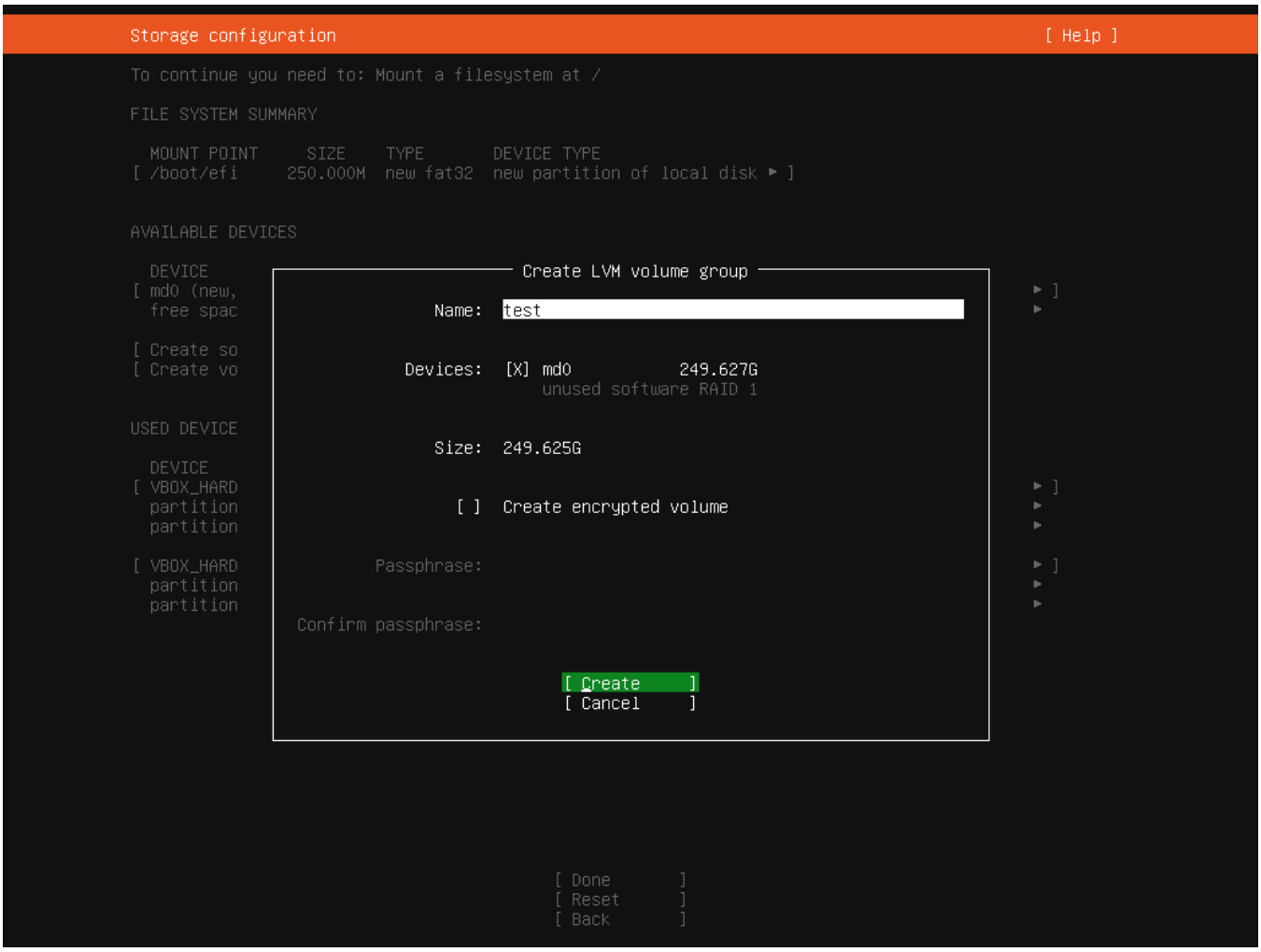

Storage configuration
[Help]
To continue you need to: Mount a filesystem at /
FILE SYSTEM SUMMARY
MOUNT POINT SIZE TYPE DEVICE TYPE
[/boot/efi 250.000M new fat32 new partition of local disk ▸]
AVAILABLE DEVICES
DEVICE TYPE SIZE
[VBOX_HARDDISK_VB306efa87-f4ee35da local disk 250.000G ▸]
partition 2 new, unused 249.753G ▸
[VBOX_HARD ▸]
free spac ▸
[Create so
[Create vo
USED DEVICE
DEVICE
[VBOX_HARD ▸]
partition ▸
[VBOX_HARD ▸]
partition ▸
Adding GPT partition to VBOX_HARDDISK_VB8f352736-5f473784
Size (max 249.753G): 249.753G
Format: [Leave unformatted ▾]
Mount: [/ ▾]
[Create]
[Cancel]
[Done]
[Reset]
[Back]



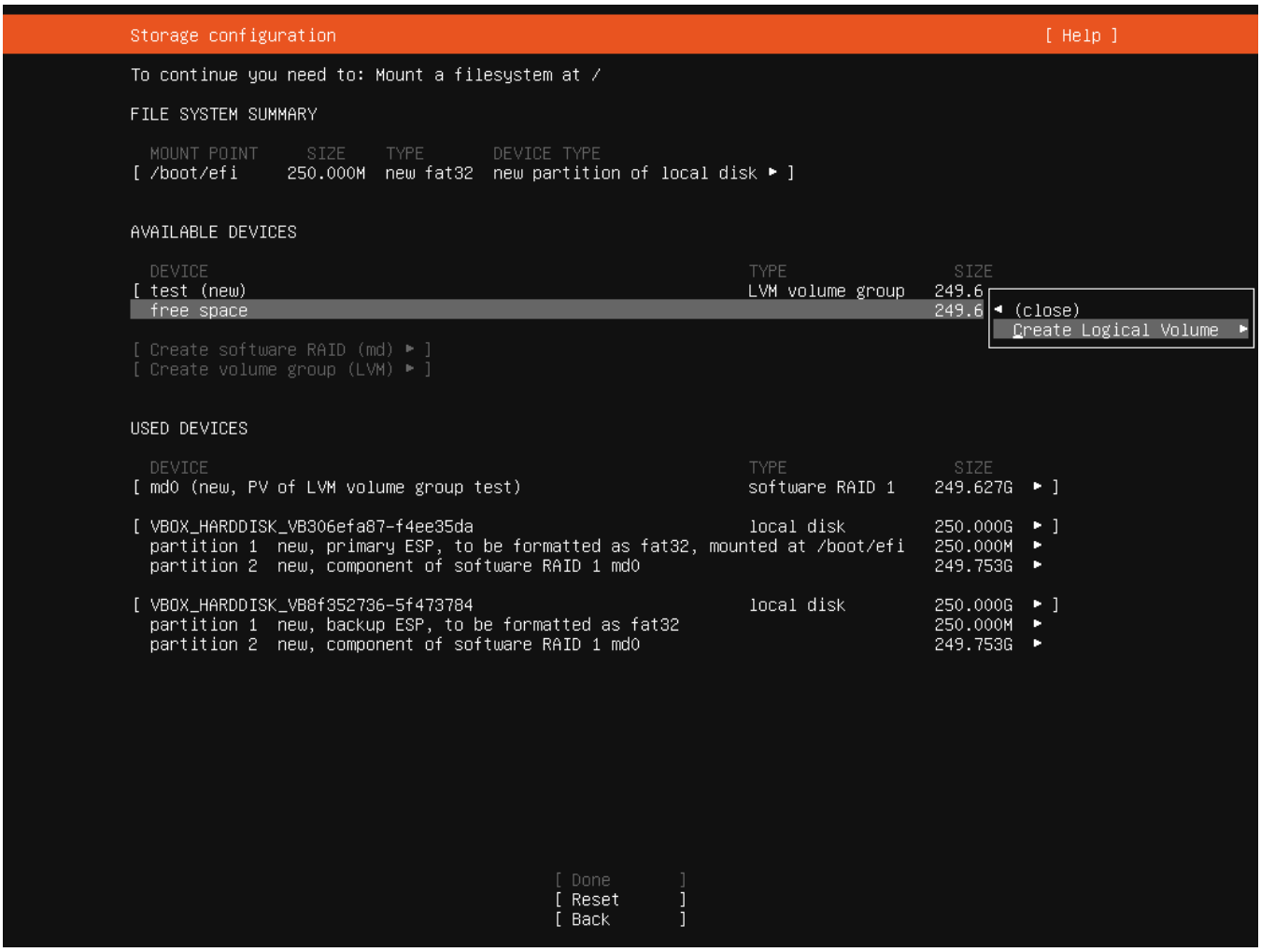
4. Create a software RAID and select the partition that you created



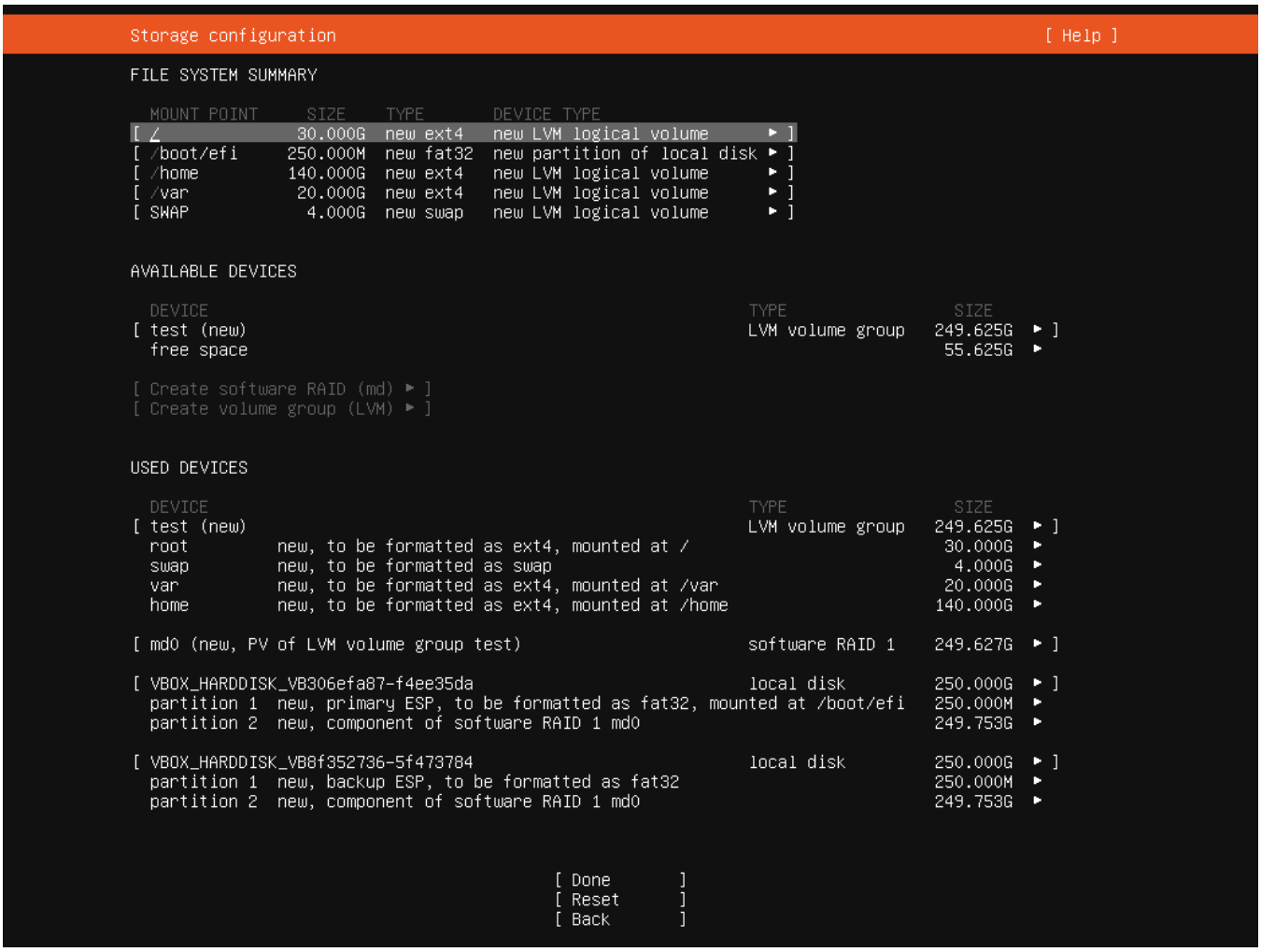
5. Create a Logical Volume Group



6. Create Logical volumes – Ex: (for 250GB-2-SSD)

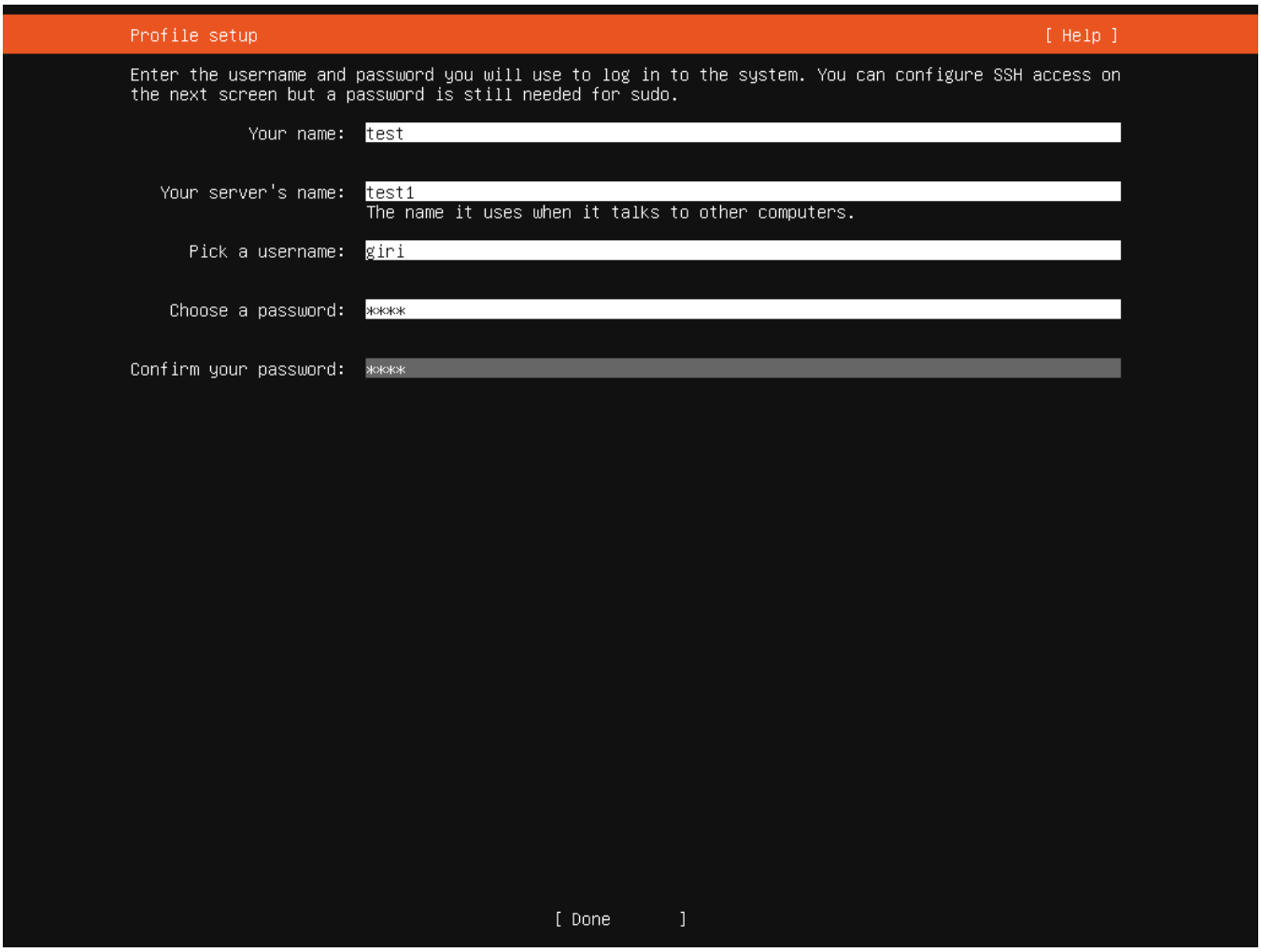


- **Root – 30GB**
- **Swap — 4GB**
- **Var — 20GB**
- **Home — 140GB**



Press Done

7. Provide your Username and Password



8. Make sure press finish to after the installation log shows success