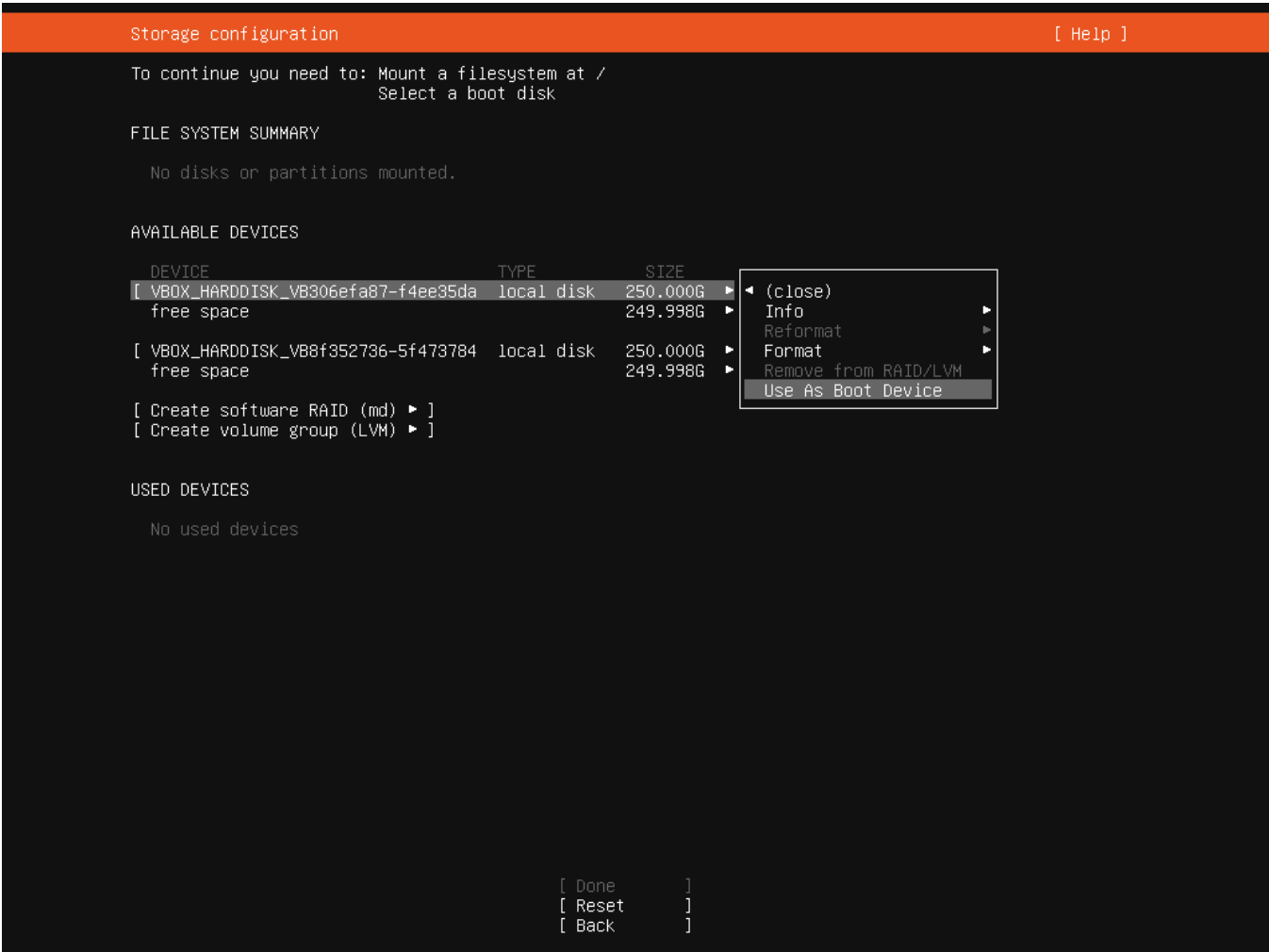
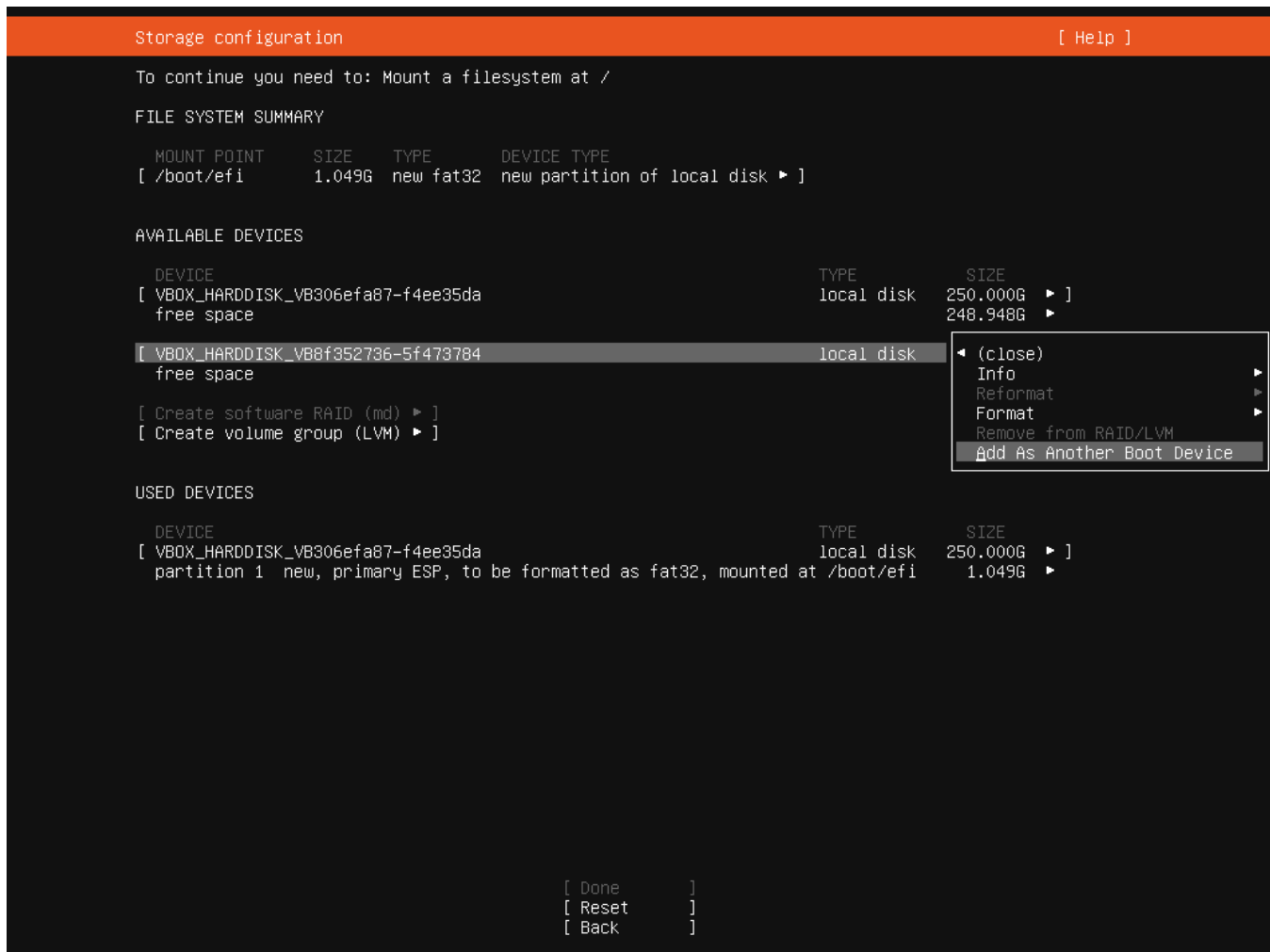


Documentation for Ubuntu Server Installation — RAID 1— With Logical Group and followed by Logical Volumes

- 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

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 free space	local disk	250.000G ▶] 248.948G ▶
[VBOX_HARDDISK_VB8f352736-5f473784 free space	local disk	250.000G ▶] 248.948G ▶
[Create software RAID (md) ▶]		
[Create volume group (LVM) ▶]		

USED DEVICES

DEVICE	TYPE	SIZE
[VBOX_HARDDISK_VB306efa87-f4ee35da partition 1 new, primary ESP, to be formatted as fat32, mounted at /boot/efi	local disk	250.00 1.04
[VBOX_HARDDISK_VB8f352736-5f473784 partition 1 new, backup ESP, to be formatted as fat32	local disk	250.00 1.04

◀ (close)
Edit ▶
Remove from RAID/LVM ▶
Delete * ▶

[Done]
[Reset]
[Back]

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]

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

[VBOX_HARD

free spac

DEVICE

[VBOX_HARD

free spac

[Create so

[Create vo

USED DEVICE

DEVICE

[VBOX_HARD

partition

[VBOX_HARD

partition

Editing partition None of VBOX_HARDDISK_VB306efa87-f4ee35da

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:

[Other ▼]

/boot/efi

[Save]

[Cancel]

[Done]

[Reset]

[Back]

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

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 ▶

◀ (close)
Add GPT Partition ▶

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

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]

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	Mount: [/	▼]	▶]
[VBOX_HARD			▶]
partition			▶]
			▶]
[VBOX_HARD			▶]
partition			▶]

Adding GPT partition to VBOX_HARDDISK_VB8f352736-5f473784

Size (max 249.753G): 249.753G

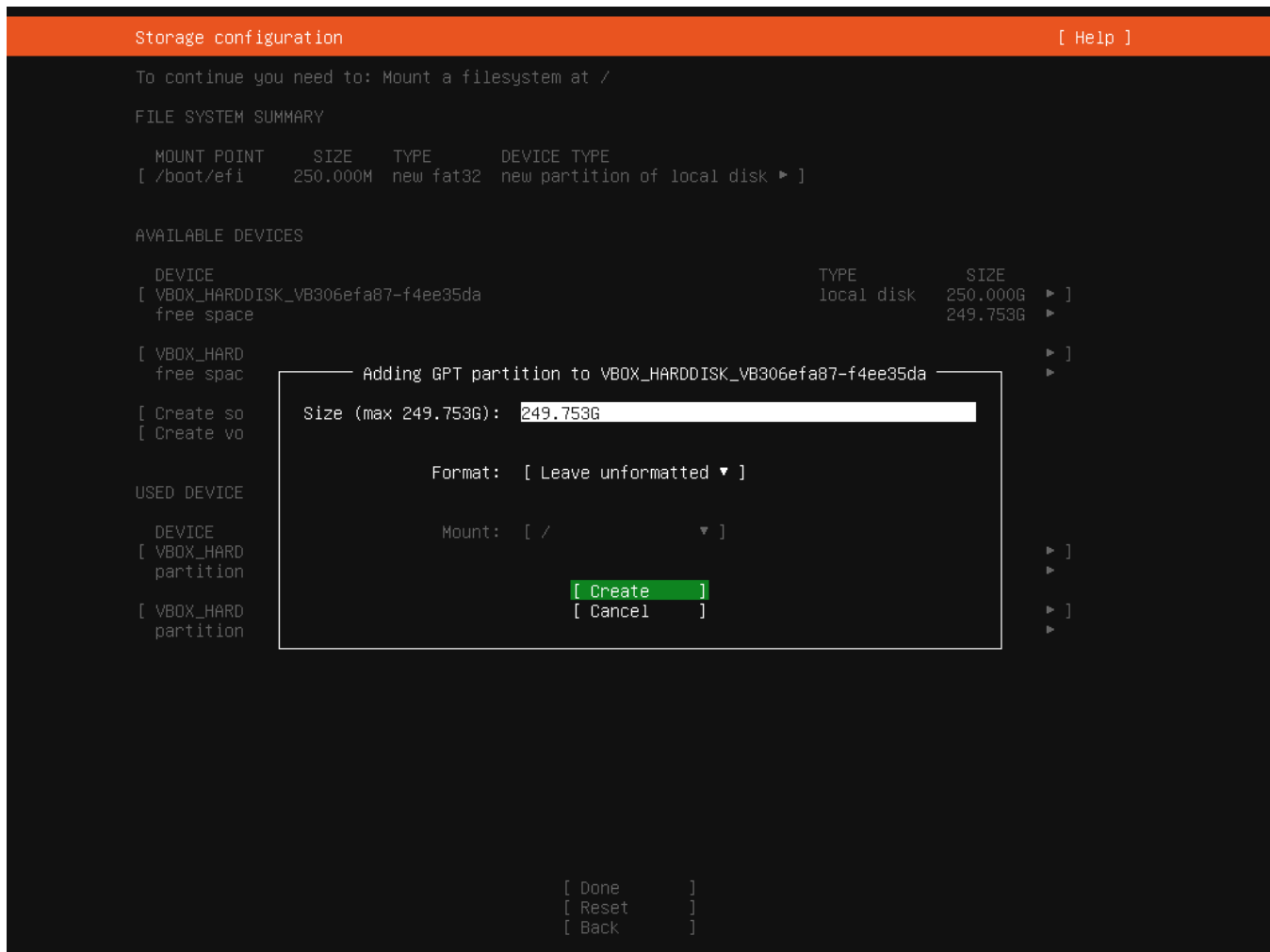
Format: [Leave unformatted ▼]

Mount: [/ ▼]

[Create]

[Cancel]

[Done]
[Reset]
[Back]



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

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 D

DEVICE

[VBOX_HARD partition

[VBOX_HARD partition

[Create so

[Create vo

USED DEVICE

DEVICE

[VBOX_HARD partition

[VBOX_HARD partition

Create software RAID ("MD") disk

Name:

RAID Level: [1 (mirrored) ▼]

Devices:

VBOX_HARDDISK_VB306efa87-f4ee35da 250.000G

local disk

[X] partition 2 249.753G

[active ▼]

unused partition of local disk

VBOX_HARDDISK_VB8f352736-5f473784 250.000G

local disk

[X] partition 2 249.753G

[active ▼]

unused partition of local disk

Size: 249.627G

[Create]

[Cancel]

[Done]

[Reset]

[Back]

5. Create a Logical Volume Group

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

[md0 (new, free spac

[Create so

[Create vo

USED DEVICE

DEVICE

[VBOX_HARD partition partition

[VBOX_HARD partition partition

Create LVM volume group

Name: test

Devices: [X] md0 249.627G
unused software RAID 1

Size: 249.625G

[] Create encrypted volume

Passphrase:

Confirm passphrase:

[Create]

[Cancel]

[Done]

[Reset]

[Back]

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

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
[test (new)	LVM volume group	249.6
free space		249.6

◀ (close)

Create Logical Volume ▶

[Create software RAID (md) ▶]

[Create volume group (LVM) ▶]

USED DEVICES

DEVICE	TYPE	SIZE
[md0 (new, PV of LVM volume group test)	software RAID 1	249.627G ▶]
[VBOX_HARDDISK_VB306efa87-f4ee35da	local disk	250.000G ▶]
partition 1 new, primary ESP, to be formatted as fat32, mounted at /boot/efi		250.000M ▶
partition 2 new, component of software RAID 1 md0		249.753G ▶
[VBOX_HARDDISK_VB8f352736-5f473784	local disk	250.000G ▶]
partition 1 new, backup ESP, to be formatted as fat32		250.000M ▶
partition 2 new, component of software RAID 1 md0		249.753G ▶

[Done]

[Reset]

[Back]

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

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[/	30.000G	new ext4	new LVM logical volume ▶]
[/boot/efi	250.000M	new fat32	new partition of local disk ▶]
[/home	140.000G	new ext4	new LVM logical volume ▶]
[/var	20.000G	new ext4	new LVM logical volume ▶]
[SWAP	4.000G	new swap	new LVM logical volume ▶]

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[test (new)	LVM volume group	249.625G ▶]
free space		55.625G ▶]
[Create software RAID (md) ▶]		
[Create volume group (LVM) ▶]		

USED DEVICES

DEVICE	TYPE	SIZE
[test (new)	LVM volume group	249.625G ▶]
root	new, to be formatted as ext4, mounted at /	30.000G ▶]
swap	new, to be formatted as swap	4.000G ▶]
var	new, to be formatted as ext4, mounted at /var	20.000G ▶]
home	new, to be formatted as ext4, mounted at /home	140.000G ▶]
[md0 (new, PV of LVM volume group test)		
	software RAID 1	249.627G ▶]
[VBOX_HARDDISK_VB306efa87-f4ee35da		
	local disk	250.000G ▶]
partition 1	new, primary ESP, to be formatted as fat32, mounted at /boot/efi	250.000M ▶]
partition 2	new, component of software RAID 1 md0	249.753G ▶]
[VBOX_HARDDISK_VB8f352736-5f473784		
	local disk	250.000G ▶]
partition 1	new, backup ESP, to be formatted as fat32	250.000M ▶]
partition 2	new, component of software RAID 1 md0	249.753G ▶]

[Done]
 [Reset]
 [Back]

Press Done

7. Provide your Username and Password

Profile setup [Help]

Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.

Your name: test

Your server's name: test1
The name it uses when it talks to other computers.

Pick a username: giri

Choose a password: ****

Confirm your password: ****

[Done]

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