TP: Chargeur de démarrage GRUB 2

2. Lister les entrées de démarrage de la machine (boot devices

```
amani@amani-virtual-machine:~$ efibootmgr

BootCurrent: 0006
BootOrder: 0006,0000,0001,0002,0003,0004,0005

Boot0000* EFI VMware Virtual SCSI Hard Drive (0.0)

Boot0001* EFI Floppy

Boot0002* EFI VMware Virtual SATA CDROM Drive (0.0)

Boot0003* EFI VMware Virtual SATA CDROM Drive (1.0)

Boot0004* EFI Network

Boot0005* EFI Internal Shell (Unsupported option)

Boot0006* ubuntu
```

3. Lister les entrées de démarrage avec leurs chemins

```
amani@amani-virtual-machine:-$ efibootmgr -v
BootCurrent: 0006
BootOrder: 0006,0000,0001,0002,0003,0004,0005
Boot0000* EFI VMware Virtual SCSI Hard Drive (0.0)
                                                        PciRoot(0x0)/Pci(0x10,0x
0)/SCSI(0,0)
Boot0001* EFI Floppy
                        PciRoot(0x0)/Pci(0x7,0x0)/Floppy(0x0)
                                                     PciRoot(0x0)/Pci(0x11,0x
Boot0002* EFI VMware Virtual SATA CDROM Drive (0.0)
0)/Pci(0x4,0x0)/Sata(0,0,0)
Boot0003* EFI VMware Virtual SATA CDROM Drive (1.0) PciRoot(0x0)/Pci(0x11,0x
0)/Pci(0x4,0x0)/Sata(1,0,0)
Boot0004* EFI Network PciRoot(0x0)/Pci(0x11,0x0)/Pci(0x1,0x0)/MAC(000c29a3ccb9
Boot0005* EFI Internal Shell (Unsupported option)
                                                        MemoryMapped(11,0xefe601
8,0xf3f5017)/FvFile(c57ad6b7-0515-40a8-9d21-551652854e37)
Boot0006* ubuntu
                        HD(1,GPT,ff2e93f8-5c5e-4a83-adf9-e81038cc5164,0x800,0x10
0000)/File(\EFI\ubuntu\shimx64.efi)
```

4. Changer l'ordre de démarrage

```
amani@amani-virtual-machine: $ sudo efibootmgr -o 0004,0006,0000,0001,0002,0003,
0005
[sudo] password for amani:
BootCurrent: 0006
BootOrder: 0004,0006,0000,0001,0002,0003,0005
Boot0000* EFI VMware Virtual SCSI Hard Drive (0.0)
Boot0001* EFI Floppy
Boot0002* EFI VMware Virtual SATA CDROM Drive (0.0)
Boot0003* EFI VMware Virtual SATA CDROM Drive (1.0)
Boot0004* EFI Network
Boot0005* EFI Internal Shell (Unsupported option)
Boot0006* ubuntu
```

```
amani@amani-virtual-machine:-$ sudo efibootmgr -o 0006,0000,0001,0002,0003,0004,
0005
BootCurrent: 0006
BootOrder: 0006,0000,0001,0002,0003,0004,0005
Boot0000* EFI VMware Virtual SCSI Hard Drive (0.0)
Boot0001* EFI Floppy
Boot0002* EFI VMware Virtual SATA CDROM Drive (0.0)
Boot0003* EFI VMware Virtual SATA CDROM Drive (1.0)
Boot0004* EFI Network
Boot0005* EFI Internal Shell (Unsupported option)
Boot0006* ubuntu
amani@amani-virtual-machine:-$
```

- 1. Lors du démarrage du système, appuyer sur ESC pour afficher le menu de Grub2.
- 2. La figure ci-dessous présente le contenu du fichier de configuration

```
✓ Gedit
                                        أكتوبر 16 10:16
                                                                                  击 频 也
                                            grub
  Open ~
                                                                   Save
                                                                                   ū
                                          /etc/default
 1 # If you change this file, run 'update-grub' afterwards to update
 2 # /boot/grub/grub.cfg.
 3 # For full documentation of the options in this file, see:
     info -f grub -n 'Simple configuration'
 6 GRUB DEFAULT=0
 7 GRUB TIMEOUT STYLE=menu
8 GRUB TIMEOUT=10
 9 GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`
10 GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"
11 GRUB_CMDLINE_LINUX=""
13 # Uncomment to enable BadRAM filtering, modify to suit your needs
14 # This works with Linux (no patch required) and with any kernel that obtains
15 # the memory map information from GRUB (GNU Mach, kernel of FreeBSD ...)
16 #GRUB_BADRAM="0x01234567,0xfefefefe,0x89abcdef,0xefefefef"
17
18 # Uncomment to disable graphical terminal (grub-pc only)
19 #GRUB_TERMINAL=console
20
21 # The resolution used on graphical terminal
22 # note that you can use only modes which your graphic card supports via VBE
23 # you can see them in real GRUB with the command `vbeinfo'
24 #GRUB_GFXMODE=640x480
26# Uncomment if you don't want GRUB to pass "root=UUID=xxx" parameter to Linux
27 #GRUB_DISABLE_LINUX_UUID=true
29 # Uncomment to disable generation of recovery mode menu entries
30 #GRUB_DISABLE_RECOVERY="true"
32 # Uncomment to get a beep at grub start
33 #GRUB_INIT_TUNE="480 440 1"
```

```
Gedit
                                        🛱 أكتوبر 16 10:16
                                            grub
  Open ~
           1+1
                                                                   Save
                                                                          =
                                          /etc/default
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 2 # /boot/grub/grub.cfg.
 3 # For full documentation of the options in this file, see:
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 8 GRUB_TIMEOUT=10
9 GRUB_DISTRIBUTOR='lsb_release -i -s 2> /dev/null || echo Debian'
10 GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"
11 GRUB_CMDLINE_LINUX=""
12
13 # Uncomment to enable BadRAM filtering, modify to suit your needs
14 # This works with Linux (no patch required) and with any kernel that obtains
15 # the memory map information from GRUB (GNU Mach, kernel of FreeBSD ...)
16 #GRUB BADRAM="0x01234567,0xfefefefe,0x89abcdef,0xefefefef"
17
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31
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33 #GRUB_INIT_TUNE="480 440 1"
```

```
amani@amani-virtual-machine:~$ lsb_release -s -i
Ubuntu
amani@amani-virtual-machine:~$
```

```
1 # If you change this file, run 'update-grub' afterwards to update
2 # /boot/grub/grub.cfg.
3 # For full documentation of the options in this file, see:
4# info -f grub -n 'Simple configuration'
6 GRUB_DEFAULT=0
7 GRUB_TIMEOUT_STYLE=menu
8 GRUB_TIMEOUT=10
9 #GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`
0 GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"
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8 # Uncomment to disable graphical terminal (grub-pc only)
9 #GRUB TERMINAL=console
1# The resolution used on graphical terminal
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```

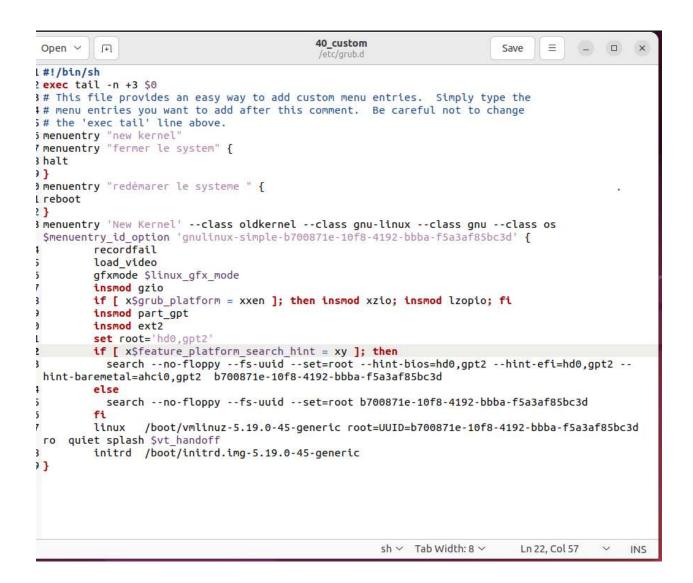
GNU GRUB version 2.06

*Old Kernel GNJ/_inux Advanced options for Old Kernel GNU/Linux UEFI Firmware Settings Arrêter le système Redémarrer le système

```
amani@amani-virtual-machine:—$ cd Downloads/
amani@amani-virtual-machine:—/Downloads$ ls
linux-headers-5.19.0-051900_5.19.0-051900.202207312230_all.deb
linux-headers-5.19.0-051900-generic_5.19.0-051900.202207312230_amd64.deb
linux-headers-5.19.0-051900-generic_5.19.0-051900.202207312230_amd64.deb
linux-image-unsigned-5.19.0-051900-generic_5.19.0-051900.202207312230_amd64.deb
linux-modules-5.19.0-051900-generic_5.19.0-051900.202207312230_amd64.deb
amani@amani-virtual-machine:—/Downloads$ sudo dpkg -i ./*.deb
Selecting previously unselected package linux-headers-5.19.0-051900.
(Reading database ... 202243 files and directories currently installed.)
Preparing to unpack .../linux-headers-5.19.0-051900_5.19.0-051900.202207312230_a
ll.deb ...
Unpacking linux-headers-5.19.0-051900 (5.19.0-051900.202207312230) ...
Selecting previously unselected package linux-headers-5.19.0-051900-generic_
Preparing to unpack .../linux-headers-5.19.0-051900-generic_5.19.0-051900.202207
312230_amd64.deb ...
Unpacking linux-headers-5.19.0-051900-generic (5.19.0-051900.202207312230) ...
```

```
Setting up linux-modules-5.19.0-051900-generic (5.19.0-051900.202207312230) ...
Processing triggers for linux-image-unsigned-5.19.0-051900-generic (5.19.0-05190
0.202207312230) ...
/etc/kernel/postinst.d/initramfs-tools:
update-initramfs: Generating /boot/initrd.img-5.19.0-051900-generic
/etc/kernel/postinst.d/zz-update-grub:
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-6.8.0-45-generic
Found initrd image: /boot/initrd.img-6.8.0-45-generic Found linux image: /boot/vmlinuz-6.8.0-40-generic
Found initrd image: /boot/initrd.img-6.8.0-40-generic
Found linux image: /boot/vmlinuz-5.19.0-051900-generic
Found initrd image: /boot/initrd.img-5.19.0-051900-generic
Memtest86+ needs a 16-bit boot, that is not available on EFI, exiting
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB DISABLE OS PROBER documentation entry.
Adding boot menu entry for UEFI Firmware Settings ...
Errors were encountered while processing:
./linux-headers-5.19.0-051900-generic_5.19.0-051900.202207312230_armhf.deb
amani@amani-virtual-machine:~/DownloadsS
```

```
amani@amani-virtual-machine:~/Downloads$ ls /boot
config-5.19.0-051900-generic
                                  memtest86+.elf
config-6.8.0-40-generic
                                  memtest86+_multiboot.bin
config-6.8.0-45-generic
                                  System.map-5.19.0-051900-generic
                                  System.map-6.8.0-40-generic
                                  System.map-6.8.0-45-generic
initrd.img
                                  vmlinuz
initrd.img-5.19.0-051900-generic
                                  vmlinuz-5.19.0-051900-generic
initrd.img-6.8.0-40-generic
                                  vmlinuz-6.8.0-40-generic
initrd.img-6.8.0-45-generic
                                  vmlinuz-6.8.0-45-generic
initrd img old
                                  vmlinuz.old
memtest86+.bin
amani@amani-virtual-machine:~/Downloads$
```



	GNU GRUB	version 2.06
*Oldkernel GNU/Linux Advanced options for Oldkernel GNU/Linux UEFI Firmware Settings fermer le system redémarer le systeme New Kernel		