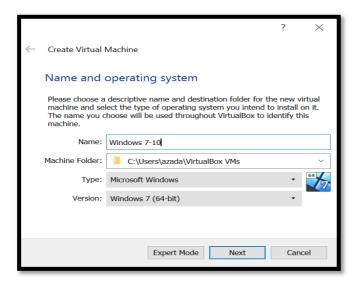
DUAL BOOT

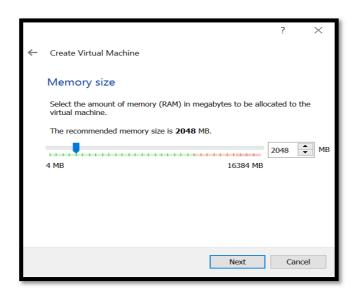


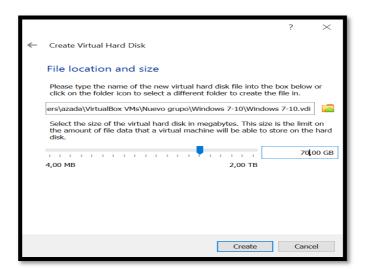


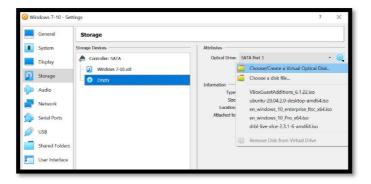
INDEX

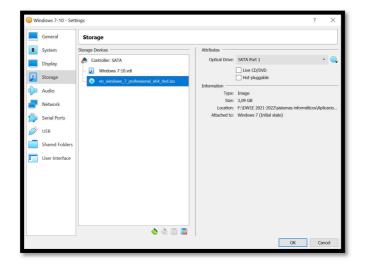
First thing we must do is preparing Windows 7 to install Windows 10 and extend the hard disk untill 70GB

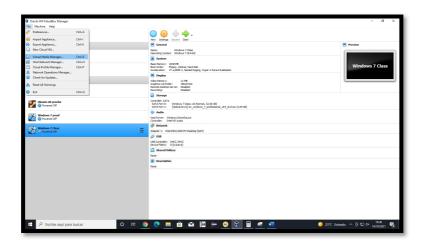


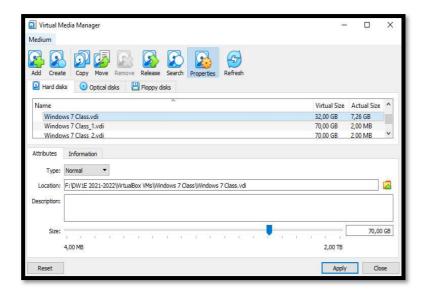


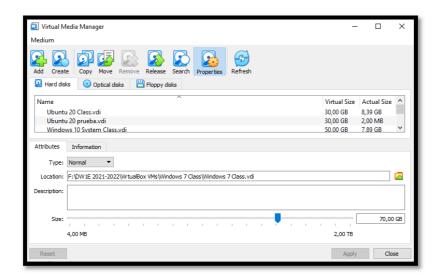




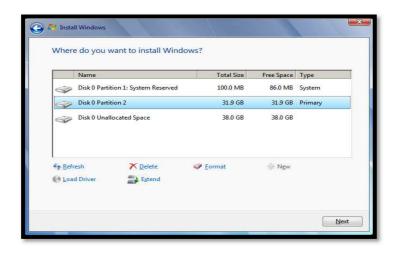








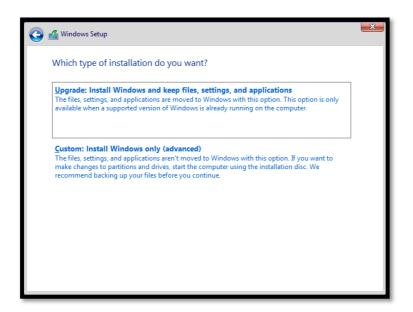






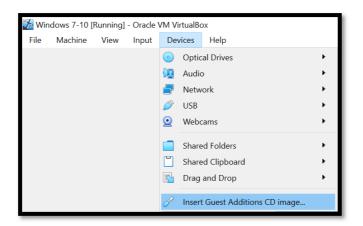
Start and enter

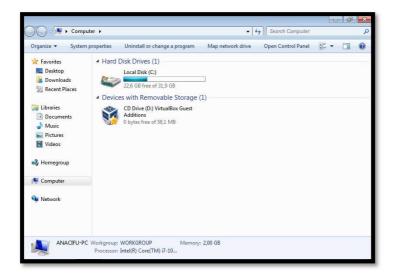
Instalar upgrade, aunque







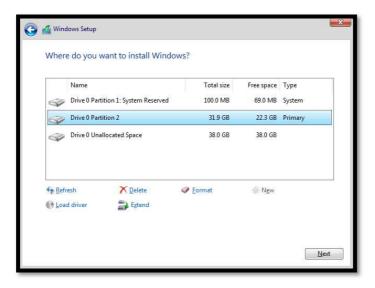


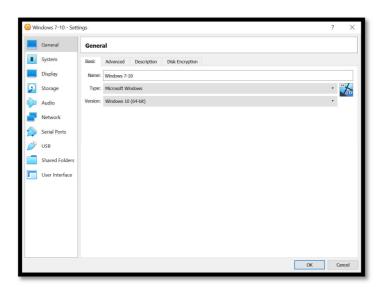




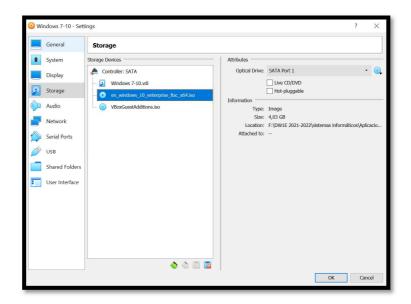


Choose drive 0 unallocated space

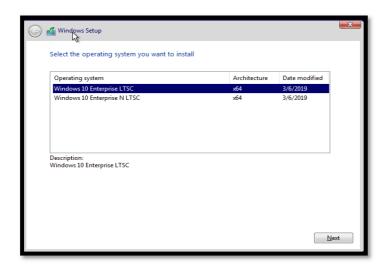


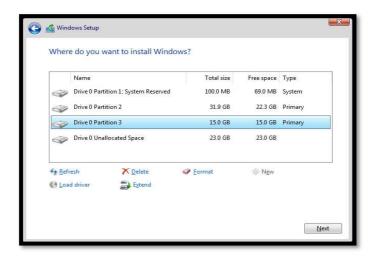


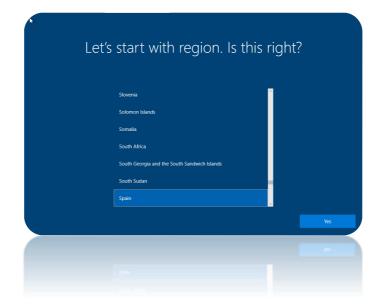
Modificar los puertos SATA para colocar windos 10 en puerto 1



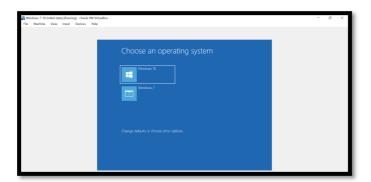




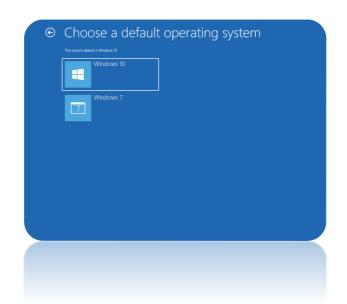


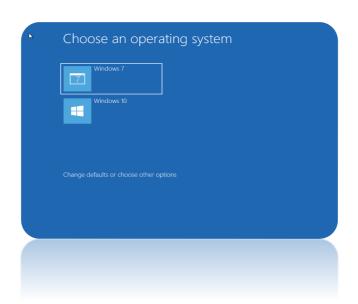


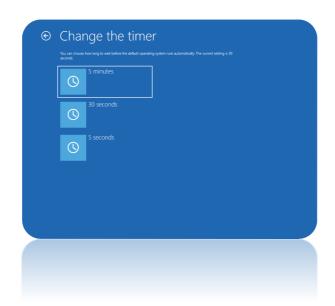






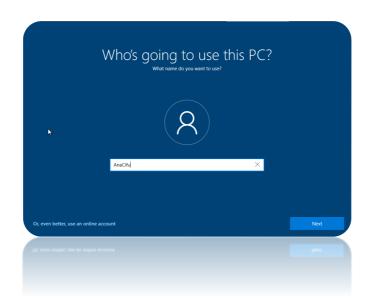




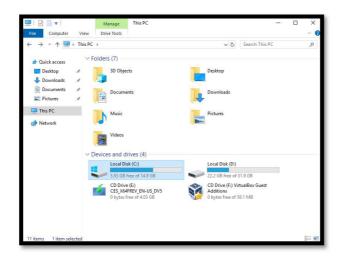


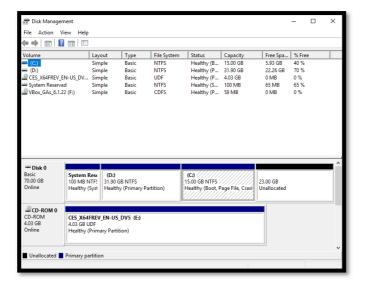




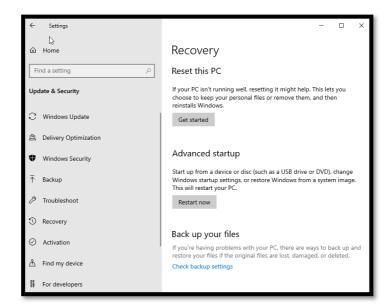


En el disco c y d tenemos la misma información



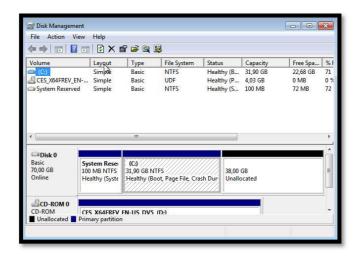


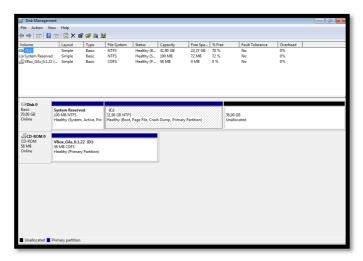
Restart now







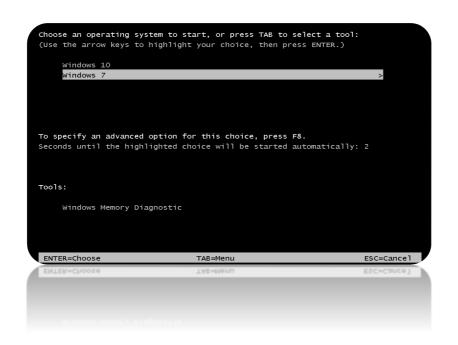


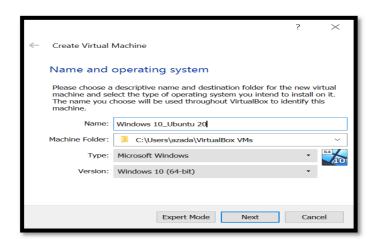


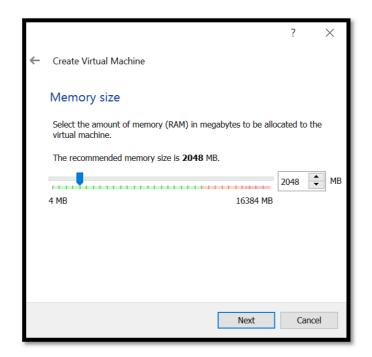
Change defaults or choose other options:

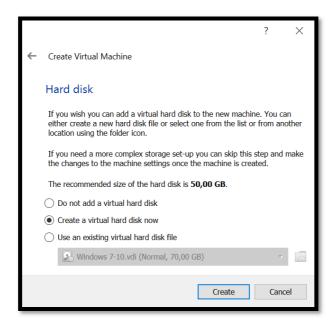




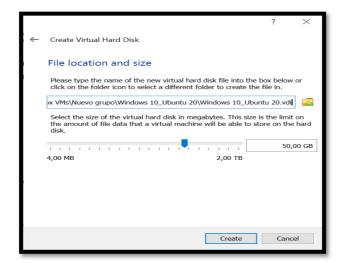


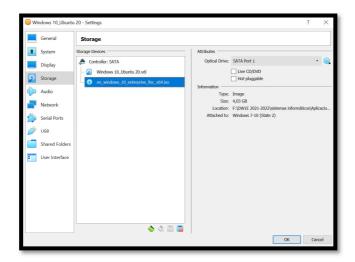


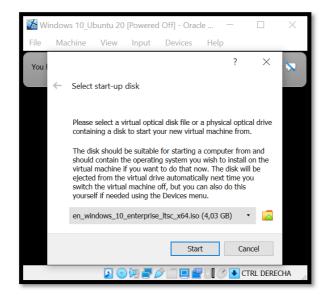




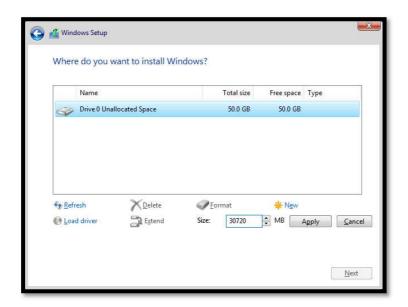


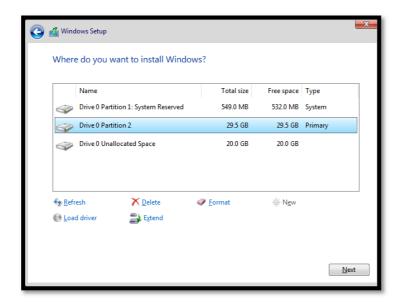


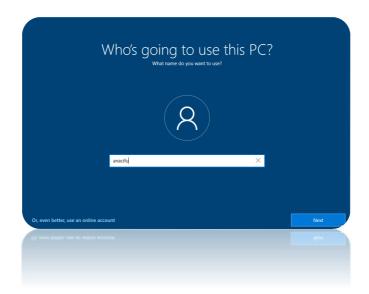


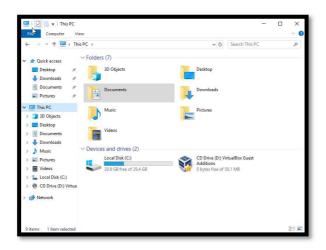


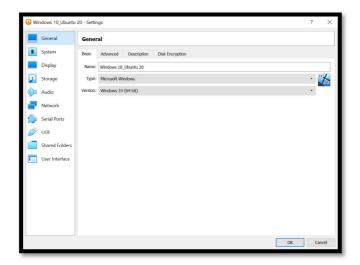


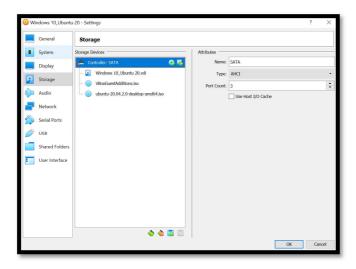


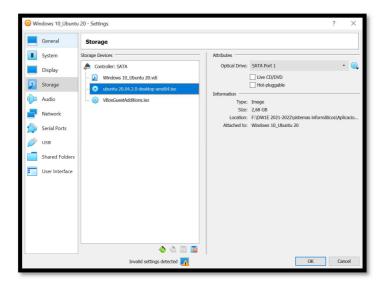


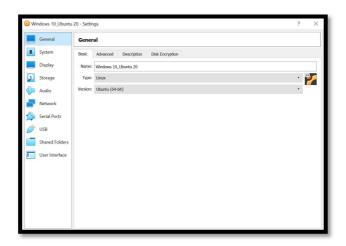




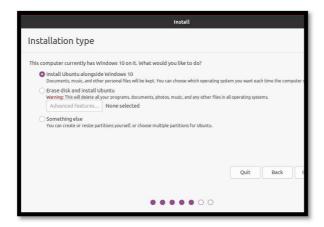


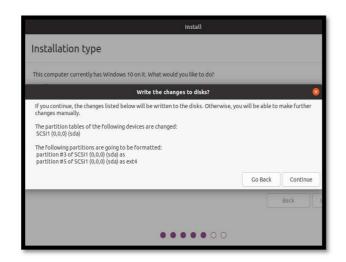


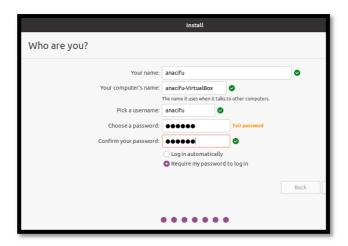








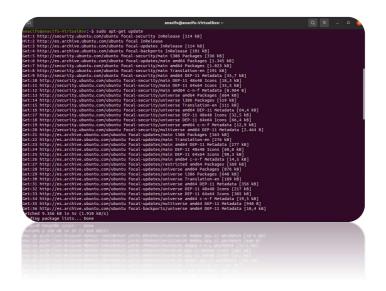


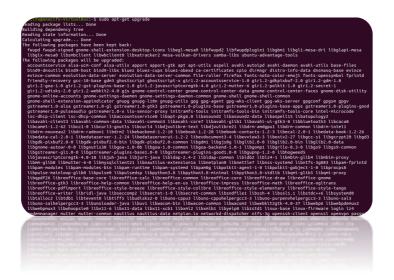




The **apt-get** command is responsible for installation, removal, and updating of software in our system.

sudo apt-get install command is used to download the latest version of your desired application from an online software repository pointed to by your sources.list configuration file and and install that application on your Linux machine.





Actualizando Grub2

In order to do this exercises it is necessary to work into root:

```
anacifu@anacifu-VirtualBox:~$ sudo su
[sudo] password for anacifu:
root@anacifu-VirtualBox:/home/anacifu#
```

a. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.

You must modify the /etc/ file using nano that is an easy to use command line text editor for Unix and Linux operating systems. It includes all the basic functionality you'd expect from a regular text editor, like syntax highlighting, multiple buffers, search and replace with regular expression support, spellchecking, UTF-8 encoding, and more.

This is the file you must use by default:

```
GNU nano 4.8

# If you change this file, run 'update-grub' afterwards to update
# Iboot grub'grub'grub.cfg.
# Foi' fult' documentation of the options in this file, see:
# Info - fgrub - n 'Simple configuration'

GRUB DEFAULT-8

GRUB DEFAULT-8

GRUB TIMEOUT-51V

GRUB TIMEOUT-51V

GRUB TIMEOUT-51V

# Uncomment to enable BadRAM filtering, modify to suit your needs
# This works with Linux (no patch required) and with any kernel that obtains
# the memory map information from GRUB (GRU Mach, kernel of FreeBSD ...)

# Uncomment to disable graphical terminal (grub-pc only)

# GRUB_BADRAM="0x01234567,0xfefefefe,0x89abcdef,0xefefefef"

# Uncomment to disable graphical terminal
# note that you can use only modes which your graphic card supports via VBE
# you can see then in real GRUB with the command 'vbeinfo'
# GRUB_GRYMODE=040x480

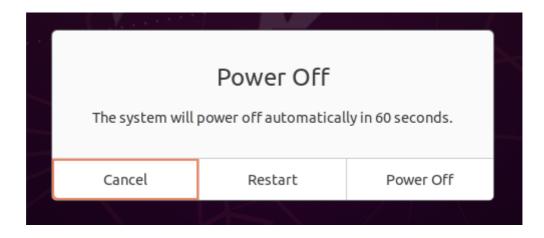
# Terminal
# tf you don't want GRUB to pass "root=UUID=xxx" parameter to Linux
# GRUB_DISABLE_LINUX_UUID=true

# Uncomment to disable generation of recovery mode menu entries
# GRUB_DISABLE_RECOVERY="true"
# Uncomment to get a beep at grub start
# GRUB_INIT_TUNE="480 440 1"

# Uncomment to get a beep at grub start
# GRUB_INIT_TUNE="480 440 1"
```

```
anacifu@anacifu-VirtualBox:~$ sudo su
[sudo] password for anacifu:
root@anacifu-VirtualBox:/home/anacifu# nano /etc/default/grub
root@anacifu-VirtualBox:/home/anacifu# 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-5.11.0-40-generic
Found initrd image: /boot/initrd.img-5.11.0-40-generic
Found linux image: /boot/initrd.img-5.8.0-43-generic
Found initrd image: /boot/initrd.img-5.8.0-43-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
Found Windows 10 on /dev/sda1
Found Windows 10 on /dev/sda1
done
root@anacifu-VirtualBox:/home/anacifu#
```

Why 4? Because grub starts to count from 0 and windows 10 is the fifth option.



Ubuntu Advanced options for Ubuntu Memory test (memtest86+) Memory test (memtest86+, serial console 115200) **Windows 10 (on /dev/sda1) Use the ↑ and ↓ keys to select which entry is highlighted. Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for a command-line. The highlighted entry will be executed automatically in 11s.

b. Boot Ubuntu without displaying the menu after showing a 10 seconds countdown.

```
GNU nano 4.8 /etc/default/grub Modified

# If you change this file, run 'update-grub' afterwards to update

# /boot/grub/grub.cfg.

# For full documentation of the options in this file, see:

# info -f grub -n 'Simple configuration'

GRUB_DEFAULT=0

GRUB_TIMEOUT_STYLE=countdown

GRUB_TIMEOUT=10

GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`

GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"

GRUB_CMDLINE_LINUX="
```

root@anacifu-VirtualBox:/home/anacifu# tail -n 1 /etc/grub.d/30_os-prober #adjust_timeout root@anacifu-VirtualBox:/home/anacifu#

```
# And fee would be a series of the series of
```

```
anacifu@anacifu-VirtualBox:~$ sudo su
[sudo] password for anacifu:
root@anacifu-VirtualBox:/home/anacifu# nano /etc/default/grub
root@anacifu-VirtualBox:/home/anacifu# 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-5.11.0-40-generic
Found initrd image: /boot/initrd.img-5.11.0-40-generic
Found linux image: /boot/vmlinuz-5.8.0-43-generic
Found initrd image: /boot/initrd.img-5.8.0-43-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
Found Windows 10 on /dev/sda1
done
root@anacifu-VirtualBox:/home/anacifu# exit
exit
anacifu@anacifu-VirtualBox:~$
```





c. Boot Ubuntu without displaying the menu.

```
GNU nano 4.8 /etc/default/grub Modified

# If you change this file, run 'update-grub' afterwards to update

# /boot/grub/grub.cfg.

# For full documentation of the options in this file, see:

# info -f grub -n 'Simple configuration'

GRUB_DEFAULT=0

GRUB_TIMEOUT_STYLE=hidden

GRUB_TIMEOUT_STYLE=hidden

GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`

GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"

GRUB_CMDLINE_LINUX=""
```

```
anacifu@anacifu-VirtualBox:~$ sudo su
[sudo] password for anacifu:
root@anacifu-VirtualBox:/home/anacifu# nano /etc/default/grub
root@anacifu-VirtualBox:/home/anacifu# 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-5.11.0-40-generic
Found initrd image: /boot/initrd.img-5.11.0-40-generic
Found linux image: /boot/vmlinuz-5.8.0-43-generic
Found initrd image: /boot/initrd.img-5.8.0-43-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
Found Windows 10 on /dev/sda1
done
root@anacifu-VirtualBox:/home/anacifu# exit
anacifu@anacifu-VirtualBox:~$
```

```
GNU nano 4.8

# If you change this file, run 'update-grub' afterwards to update

# /boot/grub/grub.cfg.

# For full documentation of the options in this file, see:

# info -f grub -n 'Simple configuration'

GRUB_DEFAULT=4

GRUB_TIMEOUT_STYLE=hidden

GRUB_TIMEOUT=0

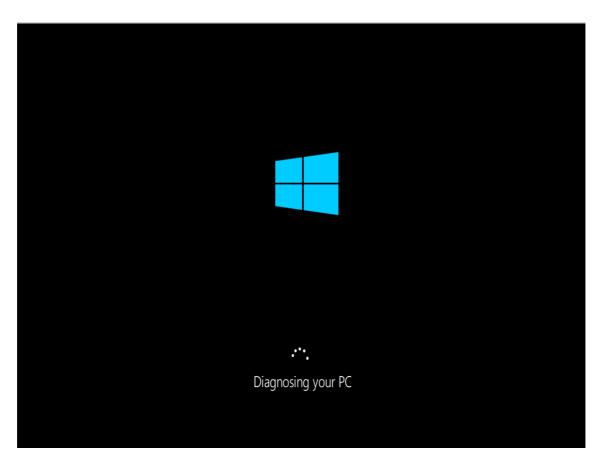
GRUB_DISTRIBUTOR=`lsb_release -i -s 2> /dev/null || echo Debian`

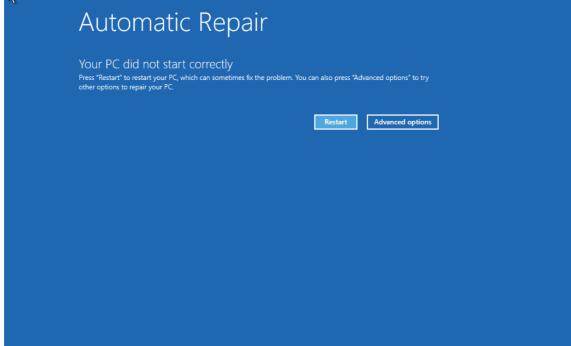
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"

GRUB_CMDLINE_LINUX=""
```

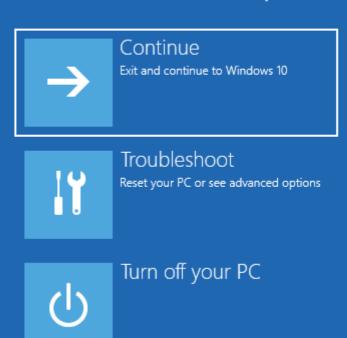
```
anacifu@anacifu-VirtualBox:~$ sudo su
[sudo] password for anacifu:
root@anacifu-VirtualBox:/home/anacifu# nano /etc/default/grub
root@anacifu-VirtualBox:/home/anacifu# update-grub
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-5.11.0-40-generic
Found initrd image: /boot/initrd.img-5.11.0-40-generic
Found linux image: /boot/vmlinuz-5.8.0-43-generic
Found initrd image: /boot/initrd.img-5.8.0-43-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
Found Windows 10 on /dev/sda1
root@anacifu-VirtualBox:/home/anacifu# exit
exit
anacifu@anacifu-VirtualBox:~$
```

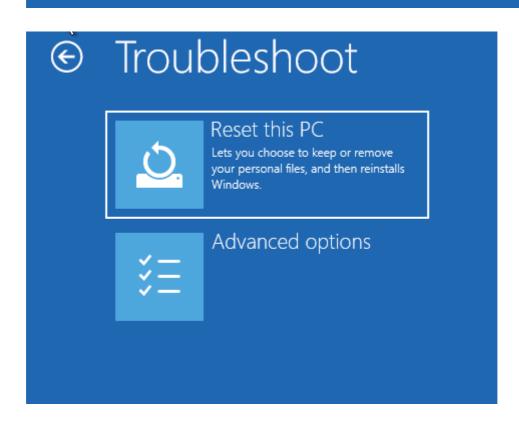






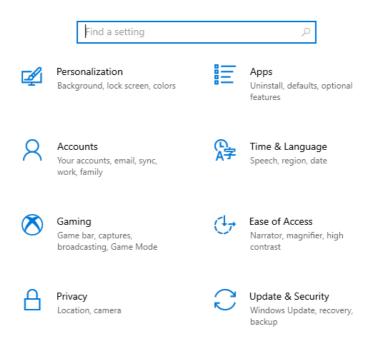
Choose an option



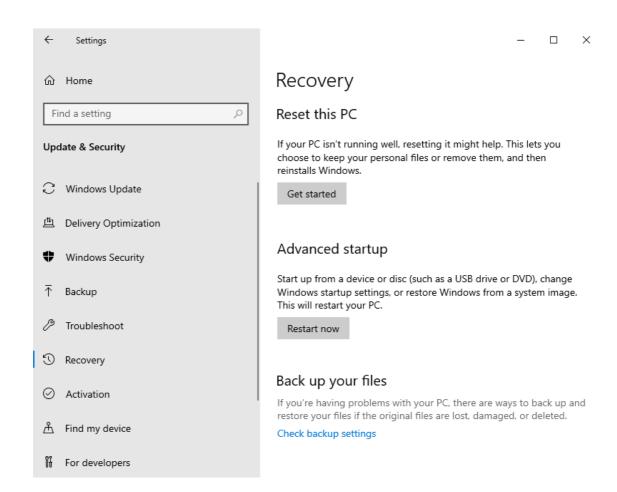


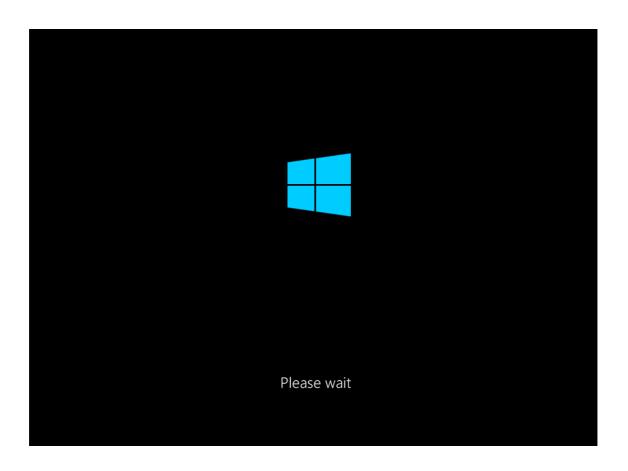
Settings - \square X

Windows Settings



Windows isn't activated. Activate Windows now.





Advanced options



System Restore

Use a restore point recorded on your PC to restore Windows



Startup Repair

Fix problems that keep Windows from



Uninstall Updates

Remove recently installed quality or feature updates from Windows



Command Prompt

Use the Command Prompt for advanced troubleshooting



System Image Recovery

Recover Windows using a specific system image file



Startup Settings

Change Windows startup behavior

Startup Settings

Restart to change Windows options such as:

- · Enable low-resolution video mode
- Enable debugging mode
- Enable boot logging
- Enable Safe Mode
- · Disable driver signature enforcement
- Disable early-launch anti-malware protection
- Disable automatic restart on system failure

Restart

Startup Settings

Press a number to choose from the options below:

Use number keys or functions keys F1-F9

- 1) Enable debugging
- 2) Enable boot logging
- 3) Enable low-resolution video
- 4) Enable Safe Mode
- 5) Enable Safe Mode with Networking
- 6) Enable Safe Mode with Command Prompt
- 7) Disable driver signature enforcement
- 8) Disable early launch anti-malware protection
- 9) Disable automatic restart after failure

Press F10 for more options
Press Enter to return to your operating system