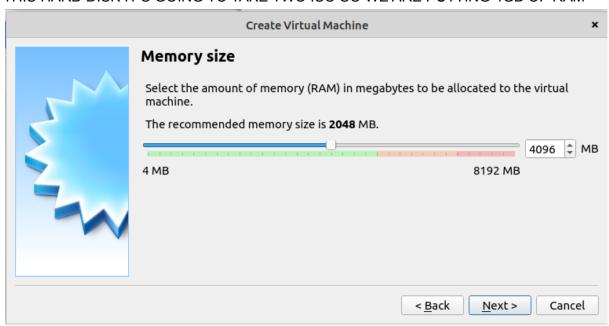
- 2. Create a virtual machine with two operating systems, Windows 7 (or Windows 10) and Ubuntu 16.04 (in this order) and configure the bootloader to:
- a. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.
- b. Boot Ubuntu without displaying the menu after showing a 10 seconds countdown.
- c. Boot Ubuntu without displaying the menu.
- d. Boot Windows without displaying the menu.
- 3. If you lose the bootloader in exercise 2, use the tool "Boot-Repair", which will let you solve the issue. If necessary, use the following the instructions in the URL: <a href="https://help.ubuntu.com/community/Boot-Repair">https://help.ubuntu.com/community/Boot-Repair</a>

# OUR VIRTUAL MACHINE WILL HAVE 80GB RAM 4GB WE INSTALL WINDOWS 7 AS ALWAYS THIS HARD DISK IT'S GOING TO TAKE TWO ISO SO WE ARE PUTTING 4GB OF RAM





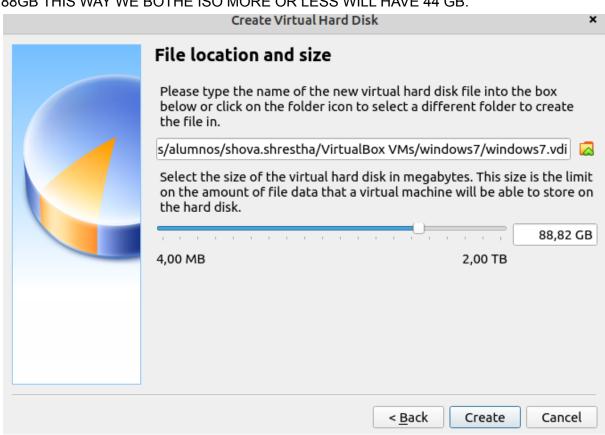
**VDI** 



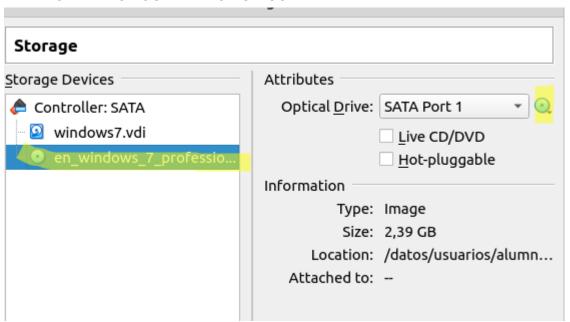
#### DYNAMICALLY ALLOCATED



#### 88GB THIS WAY WE BOTHE ISO MORE OR LESS WILL HAVE 44 GB.



IN THE CD WE PUT OUR WINDOWS7 ISO.

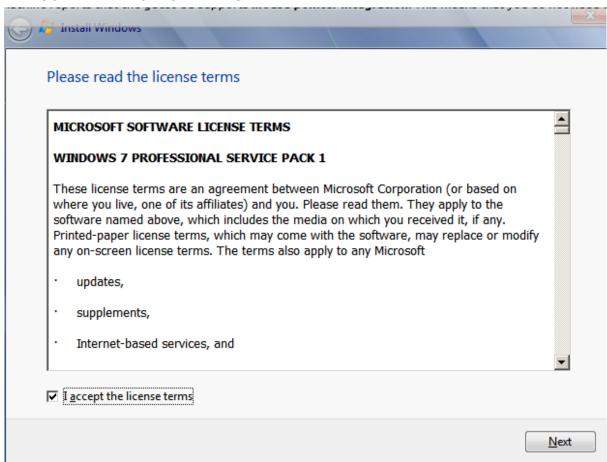


START THE MACHINE IT WILL ASK SOME CONFIGURATION ABOUT LANGUAGE AND KEYBOARD, LANGUAGE ENGLISH AND KEYBOARD SPANISH.

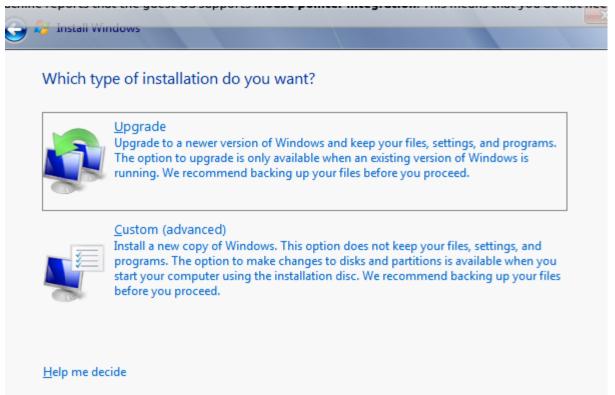




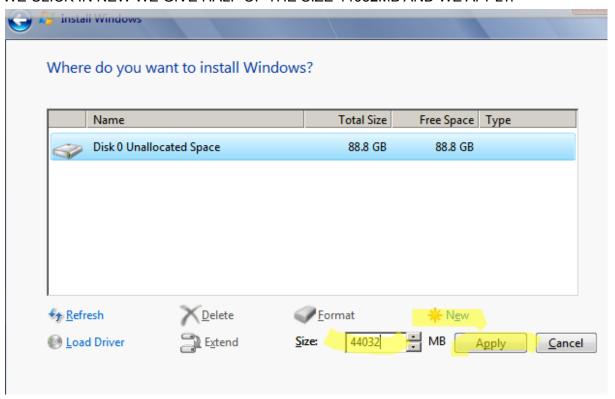
#### WE ACCEPT THE LICENSE TERMS.



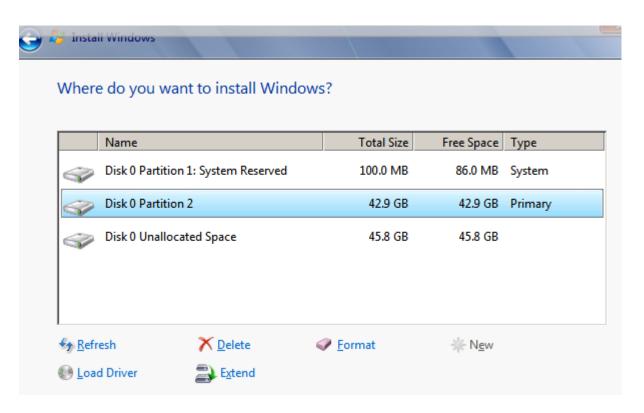
IT'S THE FIRST TIME WE INSTALL WINDOWS7 IN THIS VIRTUAL MACHINE SO WE CHOOSE THE SECOND OPTION.

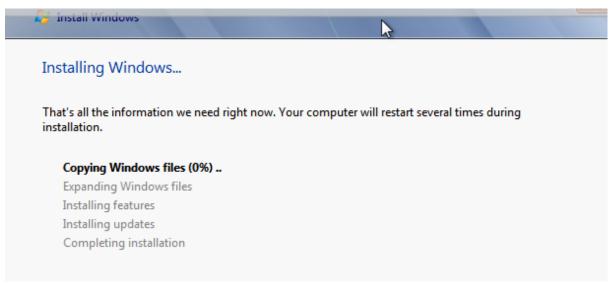


BEFORE THIS TAB IT APPEARS A TAB IN WHICH WE HAS TO CHOOSE IF THE PARTITION IT'S MADE MANUALLY OR AUTOMATICALLY.
WE CLICK IN NEW WE GIVE HALF OF THE SIZE 44032MB AND WE APPLY.



AS WE CAN SEE IT HAS BEEN CREATED A DISK FOR THE SYSTEM, OTHER THE PRIMARY WHERE IT WILL THE WINDOWS7 AND THE UNALLOCATED SPACE WILL BE FOR WINDOWS10.







IT WILL RESTART NOW WE NEED TO PUT THE USER NAME, PASSWORD.

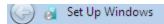


Thoose a user name for your <u>account</u> and name your computer to distinguish it on the network.

Type a user name (for example, John):	
sofi	
Type a computer name:	
sofi-PC	

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Next

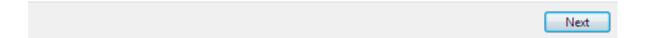


# Set a password for your account

Creating a password is a smart security precaution that helps protect your user account from unwanted users. Be sure to remember your password or keep it in a safe place.

Type a password (recommended):
••••
Retype your password:
••••
Type a password hint (required):
sofi

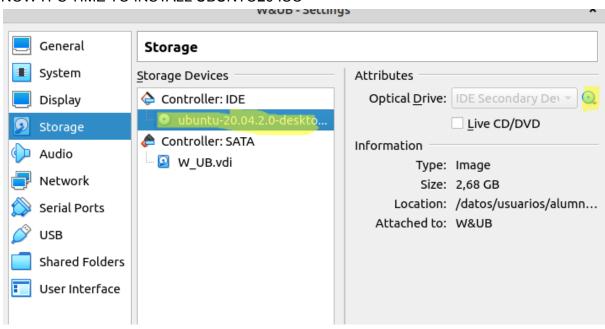
Choose a word or phrase that helps you remember your password. If you forget your password, Windows will show you your hint.

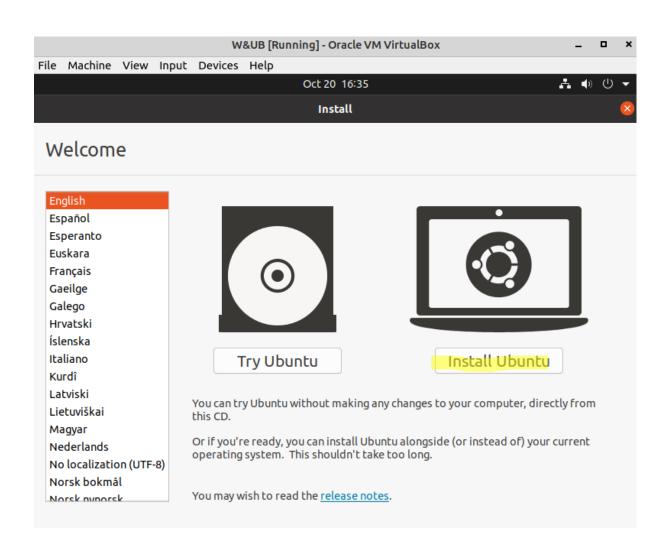


#### WINDOWS7 IT HAS BEEN INSTALLED.

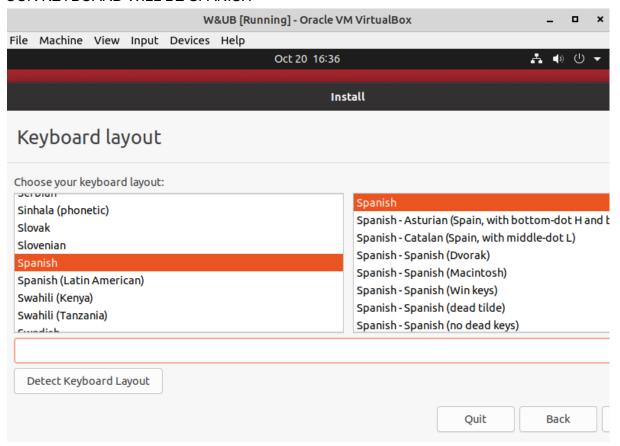


#### NOW IT'S TIME TO INSTALL UBUNTO20 ISO

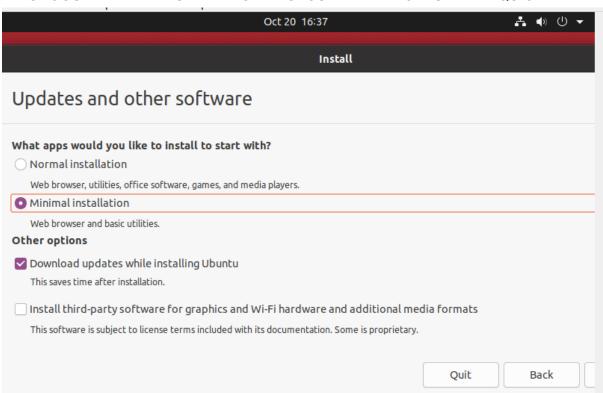


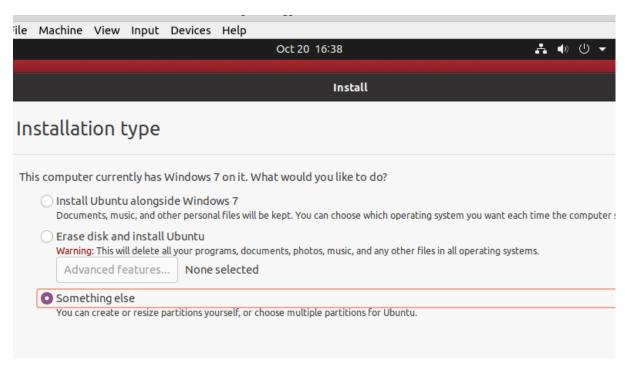


#### OUR KEYBOARD WILL BE SPANISH

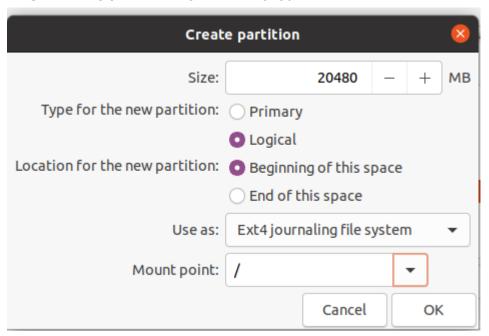


### WE CHOOSE MINIMAL INSTALLATION BECAUSE I WANT TO INSTALL IT QUICK.

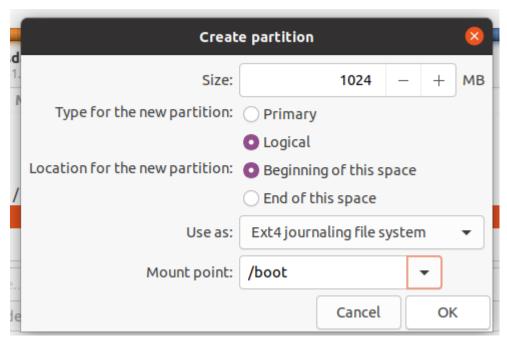




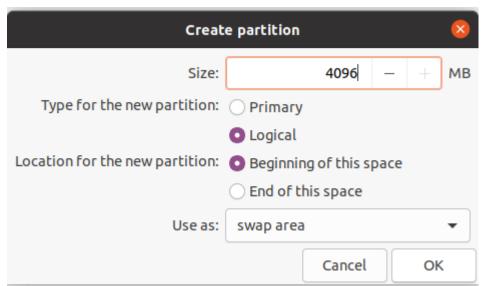
# WE ARE CREATING THE PARTITION TABLE FIRST THE ROOT PARTITION WITH 20480MB



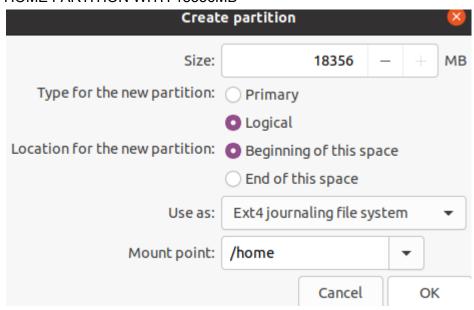
### **BOOT PARTITION WITH 1024MB**



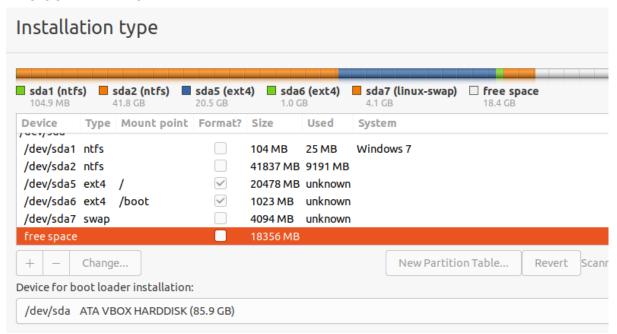
#### SWAP AREA PARTITION WITH 4096MB



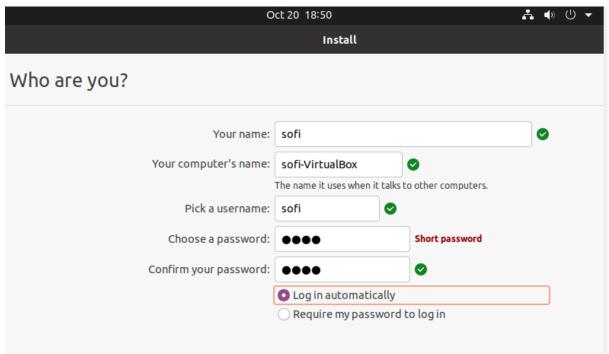
#### **HOME PARTITION WITH 18356MB**



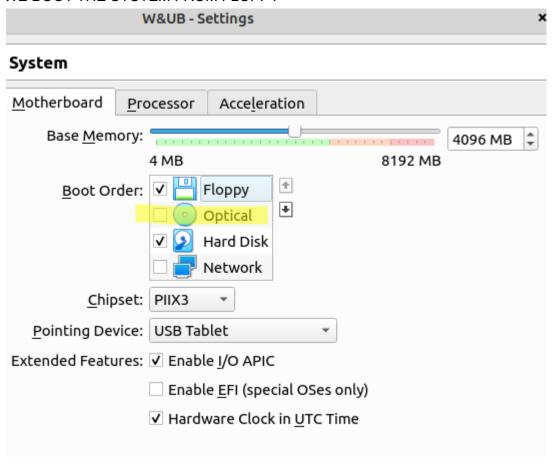
#### THIS OUR PARTITION TABLE



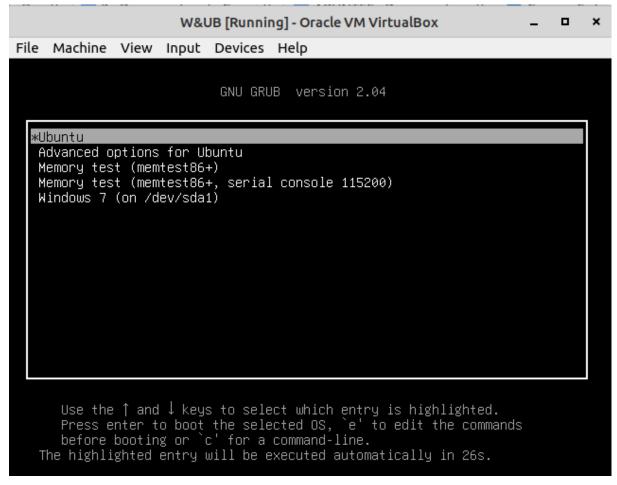
#### WE CREATE AN USER WHITH NAME AND PASSWORD



#### WE BOOT THE SYSTEM FROM FLOPPY



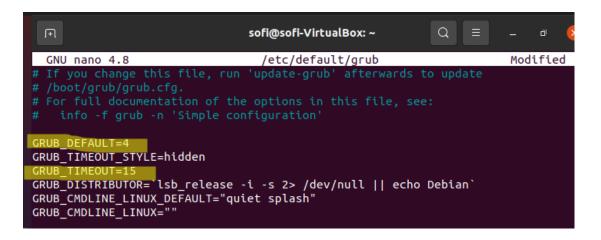
a. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.

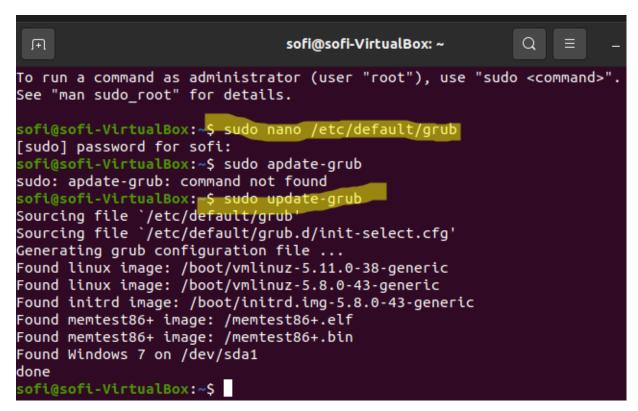


TO DO FIRST EXERCISE WE NEED TO GO TO THE TERMINAL WHERE WE ARE GOING TO PUT THIS COMMANDS TO CHANGE THE DEFAULT OS AND THE TIME. sudo nano /etc/default/grub

WE CHANGE GRUB\_DEFAULT TO WINDOWS WITCH IS THE NUMBER 4 AND FOR CHANGING THE BOOT TIME WE CHANGE IT IN GRUB\_TIMEOUT.

AFTER THAT WE NEED TO UPDATE THE GRUB DOCUMENT.



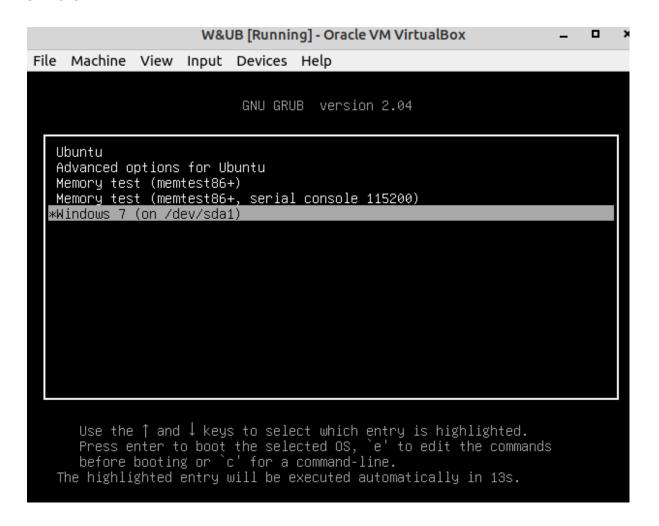


IF IT DOESN'T WORK WE NEED TO CHANGE THE GRUB.CFG DOCUMENT CAREFULLY BECAUSE IT'S A DELICATE DOCUMENT.

COMMAND: sudo nano /boot/grub/grub.cfg

```
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
[sudo] password for sofi:
sofi@sofi-VirtualBox:~$_sudo nano /etc/default/grub.cfg
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
Use "fg" to return to nano.
                              sudo nano /boot/grub/grub.cfg
[1]+ Stopped
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
sofi@sofi-VirtualBox:~$ sudo 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-5.11.0-38-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: /memtest86+.elf
Found memtest86+ image: /memtest86+.bin
 set timeout_style=menu
 if [ "${timeout}" = 0 ]; then
set timeout=10
 ### END /etc/grub.d/30 os-prober
```

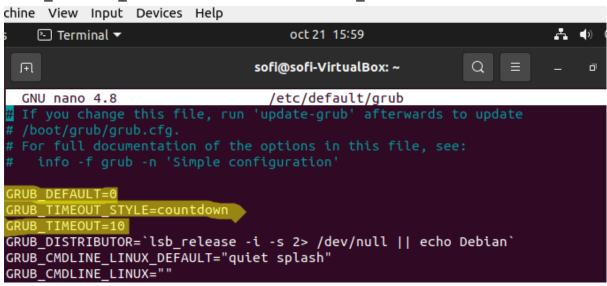
```
#set timeout_style=menu
#if [ "${timeout}" = 0 ]; then
# set timeout=10
#fi
### END /etc/grub.d/30_os-prober ###
```



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

GRUB DEFAULT 0 BECAUSE IT'S UBUNTU 20

GRUB TIMEOUT STYLE COUNTDOWN AND GRUB TIMEOUT 10 SECONDS.



```
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
[sudo] password for sofi:
sofi@sofi-VirtualBox:~$ sudo 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-5.11.0-38-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: /memtest86+.elf
Found memtest86+ image: /memtest86+.bin
Found Windows 7 on /dev/sda1
done
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
sofi@sofi-VirtualBox:~$
```

```
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
[sudo] password for sofi:
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub.cfg
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
Use "fg" to return to nano.
                              sudo nano /boot/grub/grub.cfg
[1]+ Stopped
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
sofi@sofi-VirtualBox:~S sudo update-gru
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-5.11.0-38-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: /memtest86+.elf
Found memtest86+ image: /memtest86+.bin
```

```
}
set timeout_style=menu
if [ "${timeout}" = 0 ]; then
   set timeout=10
fi
### END /etc/grub.d/30_os-prober
```

#### AND COMMENT

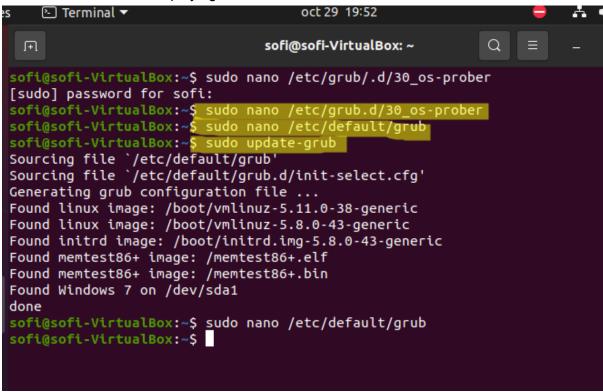
```
#set timeout_style=menu
#if [ "${timeout}" = 0 ]; then
# set timeout=10
#fi
### END /etc/grub.d/30_os-prober ###
```

AND IF DOESN'T WORK THAT WE WILL GO TO <a href="mailto://etc/grub.d/30\_os-prober">(etc/grub.d/30\_os-prober</a> AND COMMENT

#### # adjust timeout

```
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
sofi@sofi-VirtualBox:~$ sudo nano /boot/grub/grub.cfg
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
sofi@sofi-VirtualBox:~$ sudo nano /etc/grub.d/30 os-prober
sofi@sofi-VirtualBox:~$ sudo nano /etc/default/grub
sofi@sofi-VirtualBox:~$ sudo 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-5.11.0-38-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: /memtest86+.elf
Found memtest86+ image: /memtest86+.bin
Found Windows 7 on /dev/sda1
done
```

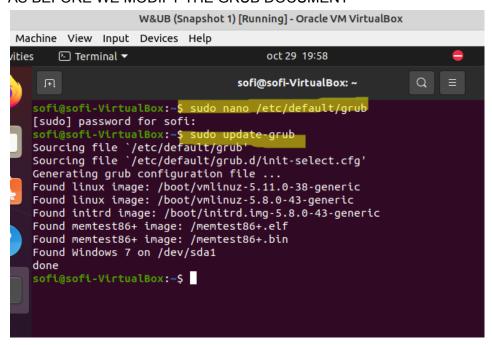
c. Boot Ubuntu without displaying the menu.



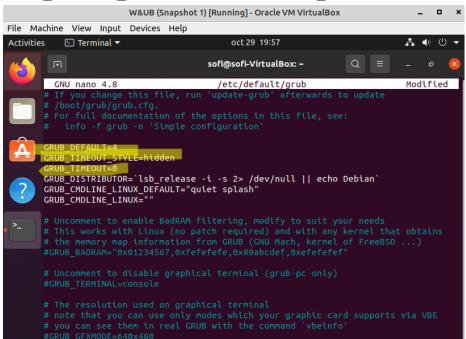
# GRUB\_DEFAULT 0 BECAUSE IT'S UBUNTU 20 GRUB\_TIMEOUT\_STYLE HIDDEN AND GRUB\_TIMEOUT 0 SECONDS.

```
W&UB (Snapshot 1) [Running] - Oracle VM VirtualBox
                                                                                        Machine View Input Devices Help
ies
      E Terminal ▼
                                           oct 29 19:50
                                                                                    (□)
    Ħ
                                      sofi@sofi-VirtualBox: ~
                                                                     Q
                                                                                       ♂
                                        /etc/default/grub
   GNU nano 4.8
                                                                                  Modified
  # /boot/grub/grub.cfq.
 GRUB_DEFAULT=0
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=""
```

d. Boot Windows without displaying the menu.
 AS BEFORE WE MODIFY THE GRUB DOCUMENT



# GRUB\_DEFAULT 4 BECAUSE IT'S WINDOWS GRUB\_TIMEOUT\_STYLE HIDDEN AND GRUB\_TIMEOUT 0 SECONDS.



#### SOL BY THE TEACHER

a.
GRUB\_DEFAULT=4
GRUB\_TIMEOUT=15
GRUB\_TIMEOUT\_STYLE=menu

The parameter GRUB\_TIMEOUT\_STYLE is not necessary, since "menu" is the default value

For b, c and d, it is required to comment the following lines in /boot/grub/grub.cfg after running update-grub

```
# set timeout_style=menu
# if [ "${timeout}" = 0 ]; then
# set timeout=10
# fi
```

Or the best efficient option (but less safe) is to edit the line below in the file /etc/grub.d/30\_os-prober

# adjust\_timeout

b.

GRUB\_DEFAULT=0
GRUB\_TIMEOUT=10
GRUB\_TIMEOUT\_STYLE=countdown

Another option that is deprecated:
GRUB\_DEFAULT=0
GRUB\_TIMEOUT=0
GRUB\_HIDDEN\_TIMEOUT=10
GRUB\_HIDDEN\_TIMEOUT\_QUIET=false

C.

GRUB\_DEFAULT=0

**GRUB TIMEOUT=0** 

GRUB\_TIMEOUT\_STYLE=hidden

Another option that is deprecated:

GRUB DEFAULT=0

### SHOVA SHRESTHA

## IES CLARA DEL REY 21/22 SERGIO BÁEZ

GRUB\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT\_QUIET=true

d.

GRUB\_DEFAULT=4

GRUB\_TIMEOUT=0

GRUB\_TIMEOUT\_STYLE=hidden

Another option that is deprecated:

GRUB\_DEFAULT=4

GRUB\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT=0

GRUB\_HIDDEN\_TIMEOUT\_QUIET=true