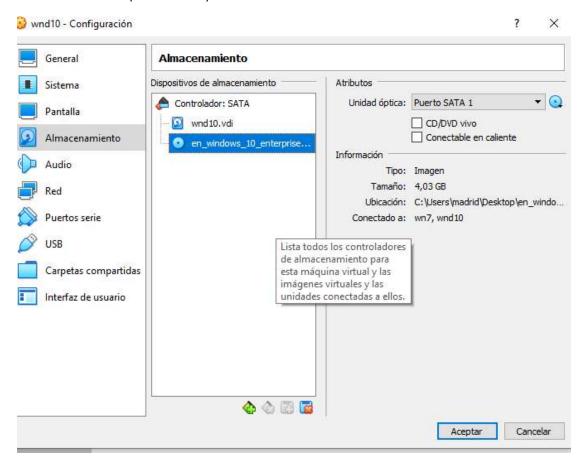
Exercise 2

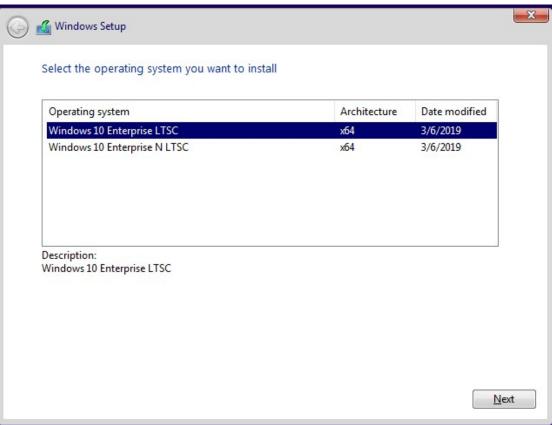
Create a virtual machine with two operating systems, Windows 7 (or Windows 10) and Ubuntu 20.04 (in this order) and configure the bootloader to:

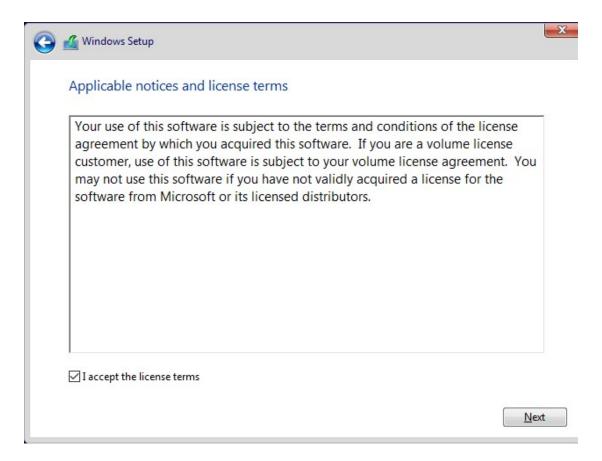
- a. Set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu.
- b. Boot Ubuntu without displaying the menu after showing a 10 seconds countdown.
- c. Boot Ubuntu without displaying the menu.
- d. Boot Windows without displaying the menu.

Create a virtual machine with two operating systems, Windows 7 (or Windows 10) and Ubuntu 20.04 (in this order)

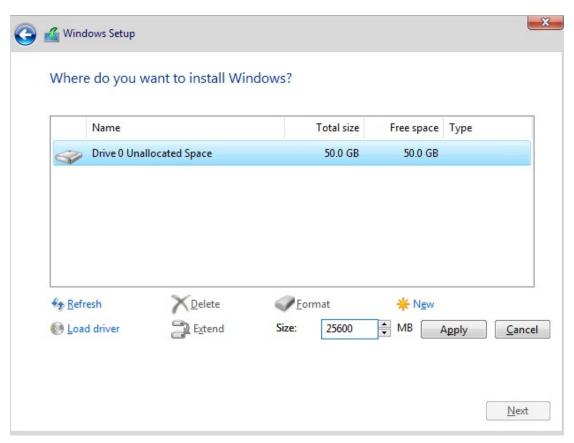


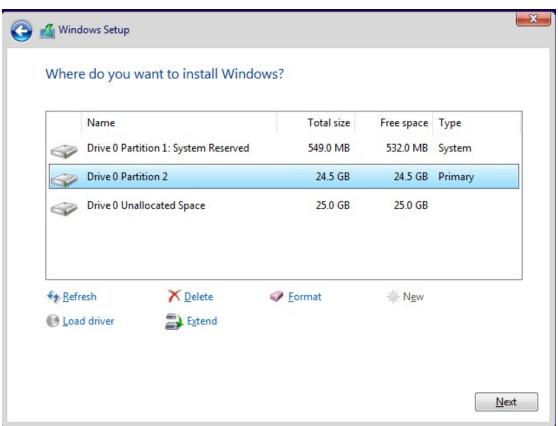


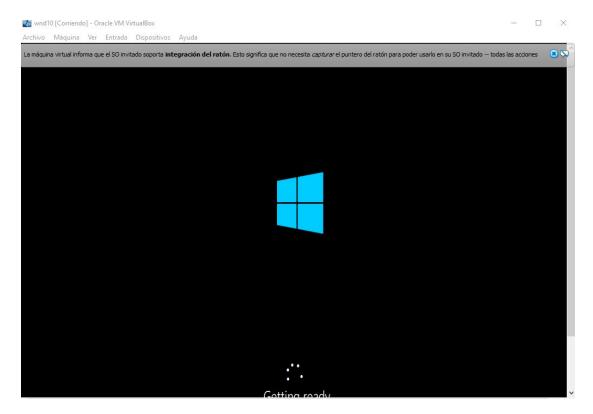


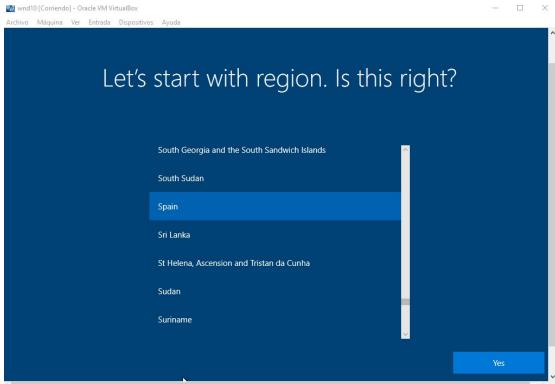


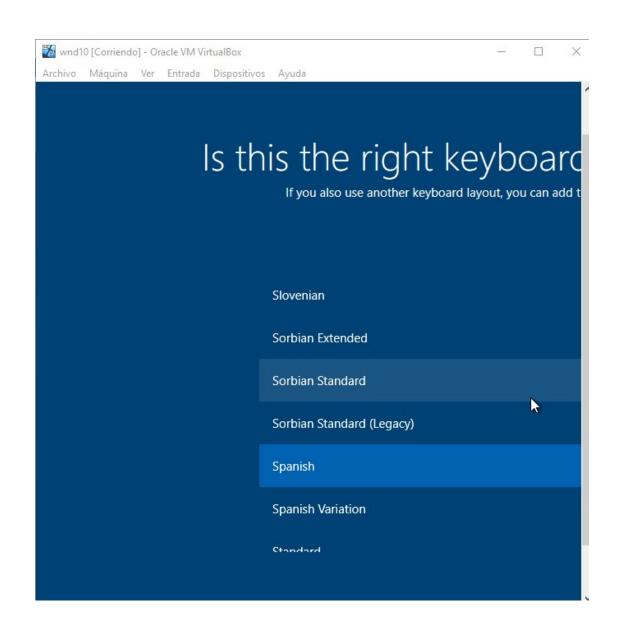
We need to create a new disk for the Ubuntu OS

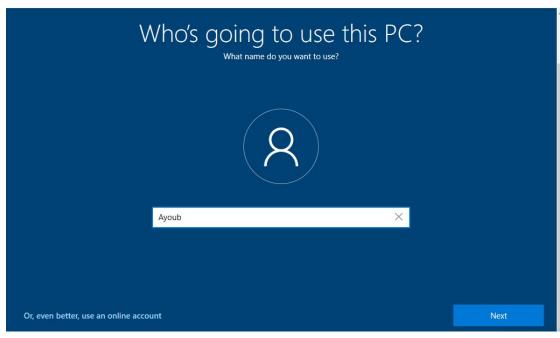


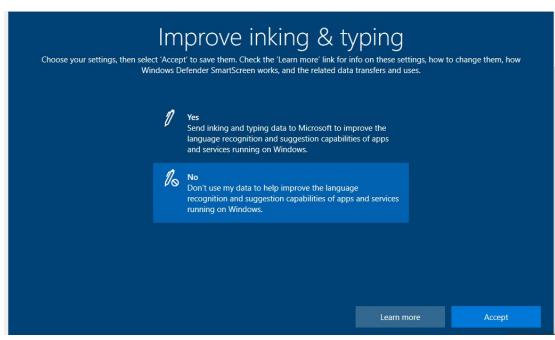


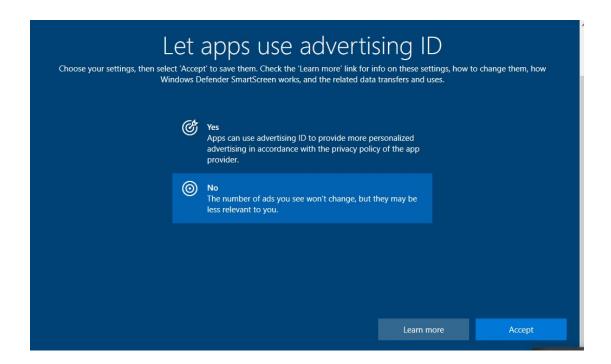


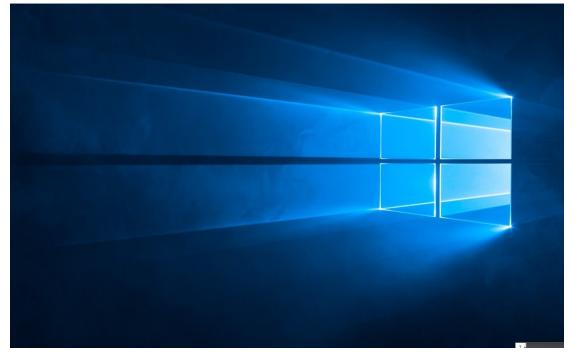




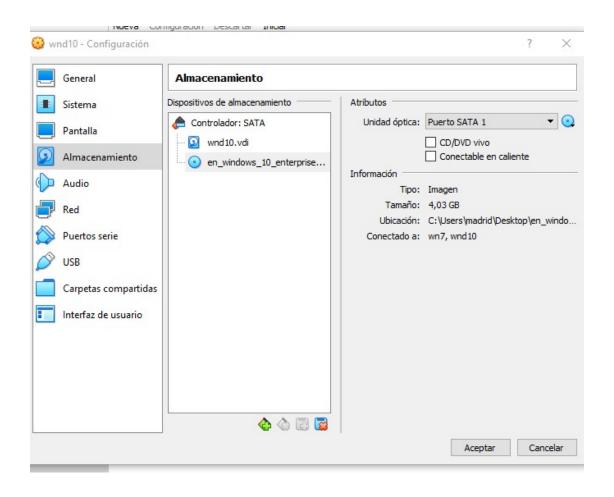


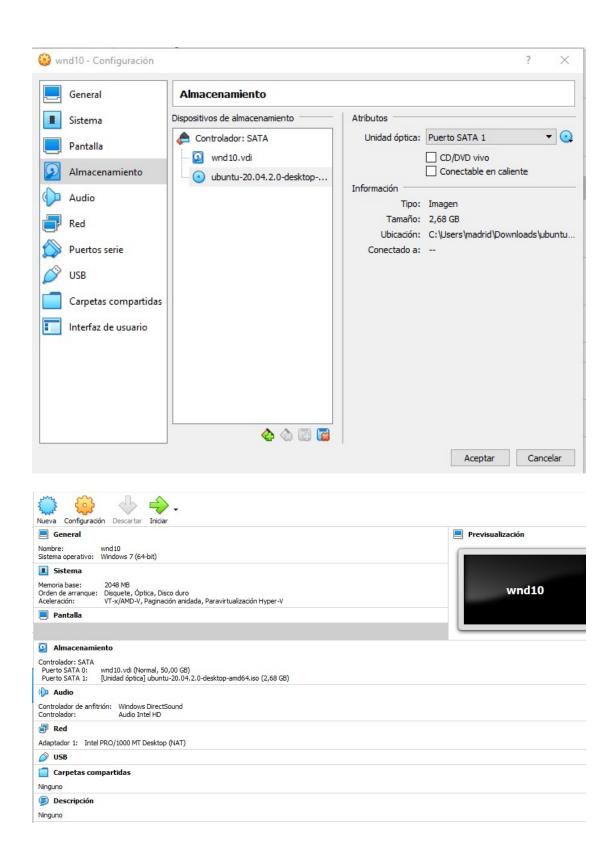


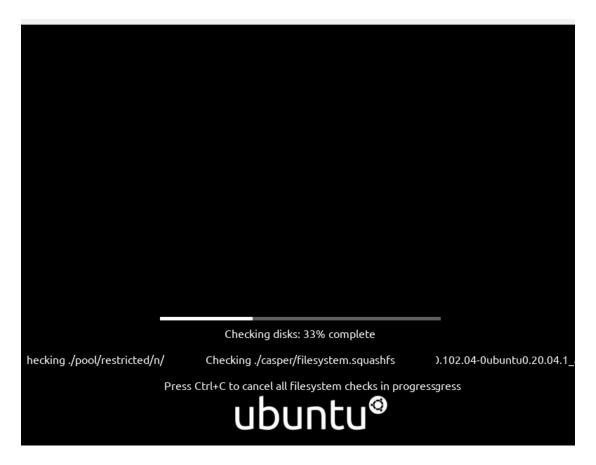




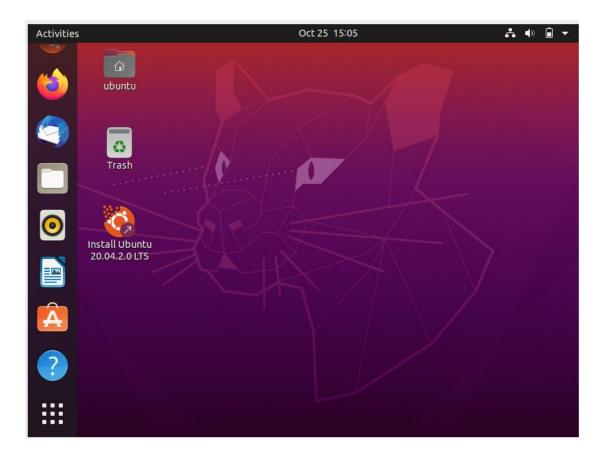
Now we are ready to install now Ubuntu



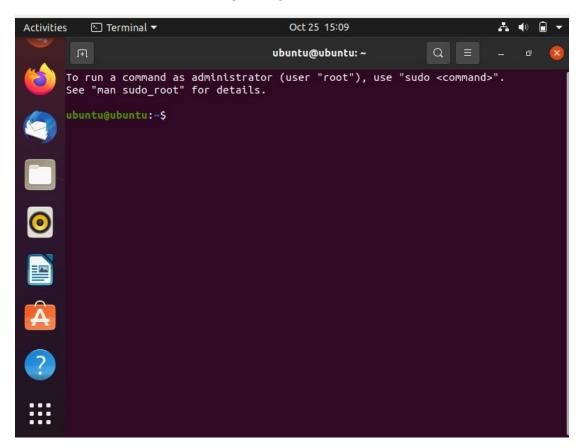


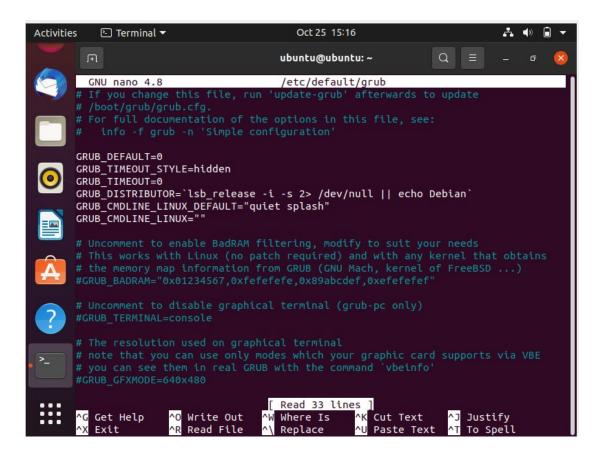


We check weather the bootloader works, and we continue with set Windows as default entry and boot after 15 seconds if the user does not select another option in the menu. To do that we need to go to Ubuntu's Terminal to change the Grub menu:

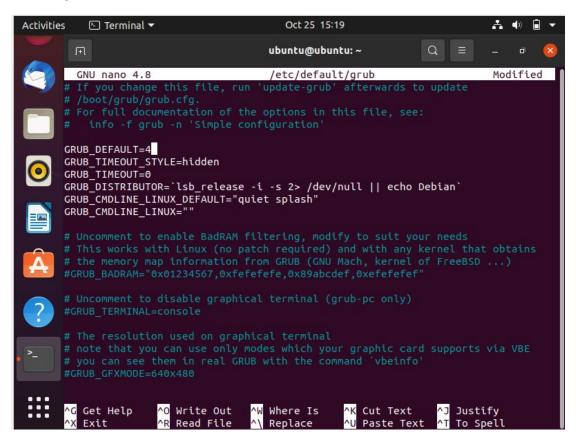


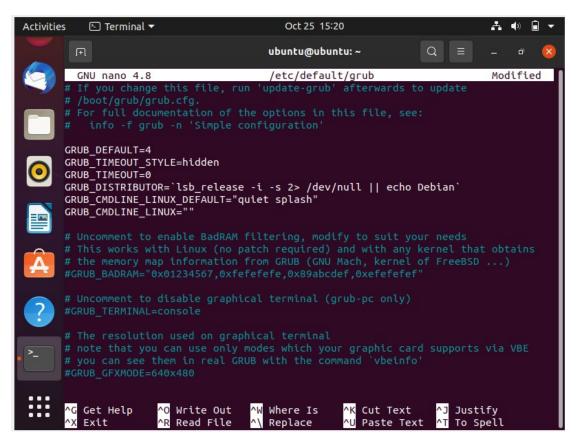
We use the sudo nano /etc/default/grub to get into the menu's code

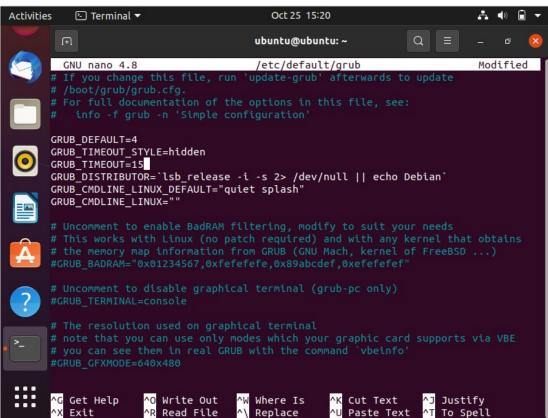




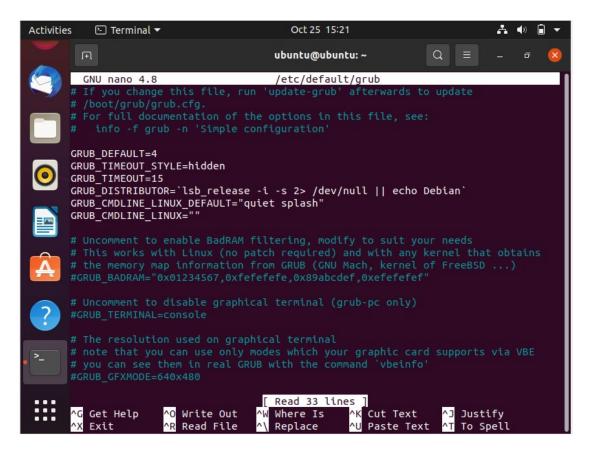
We change default=4 and timeout=15:



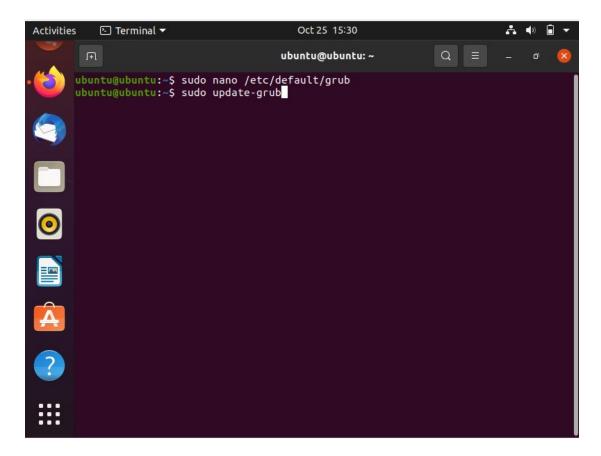




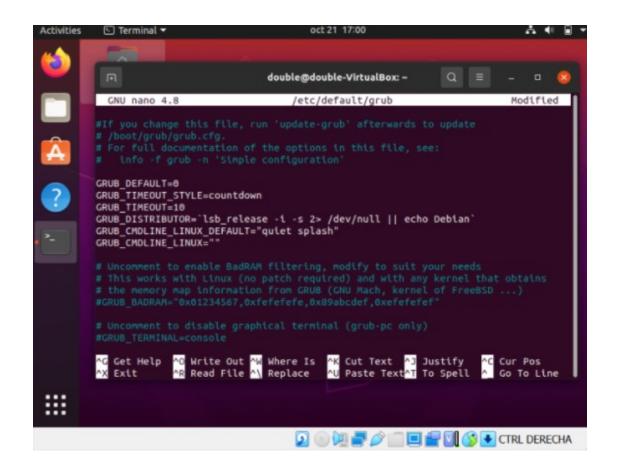
We use control+X to exit and pressing Y to save the changes.

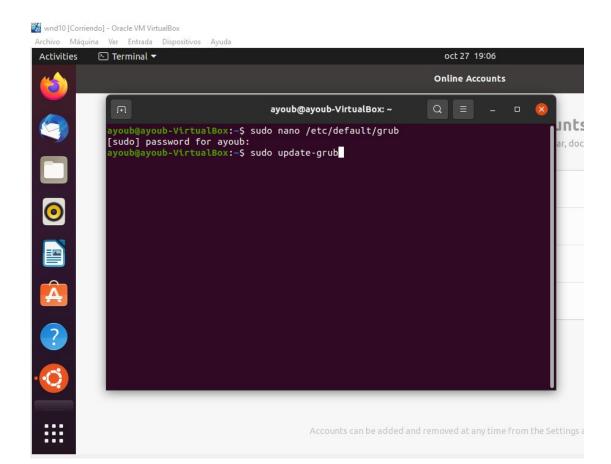


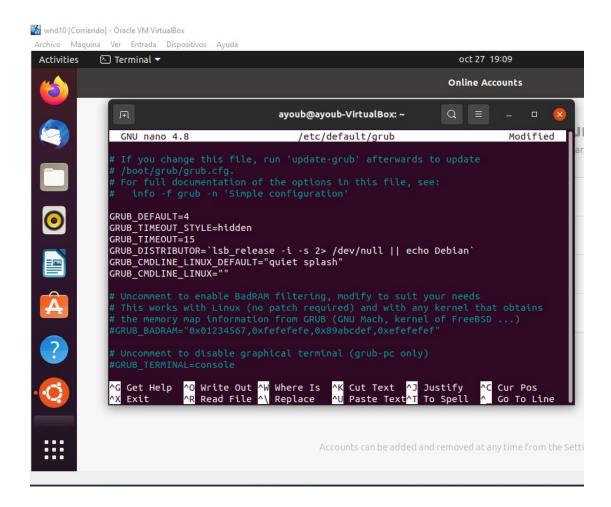
Now we need to use sudo update-grub to confirm the new file, and restart it after.

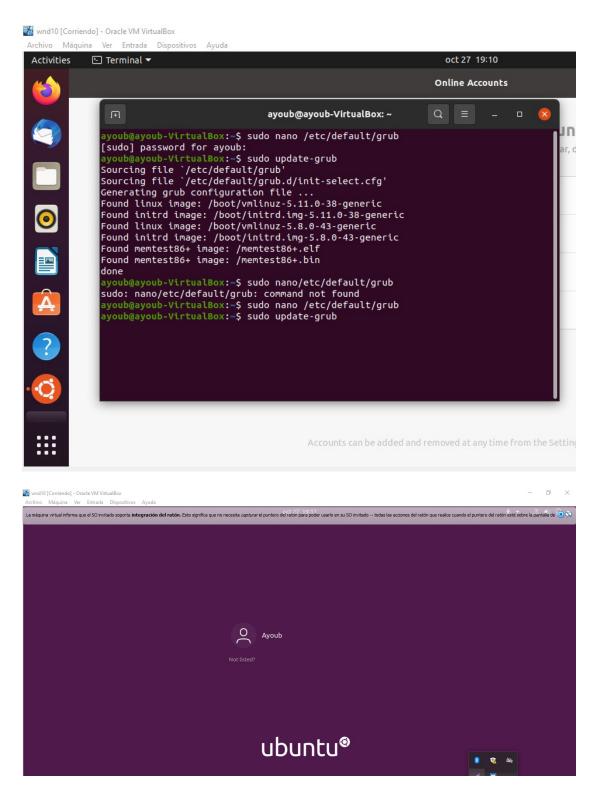


Now we proceed with the item B; Boot Ubuntu without displaying the menu after showing a 10 seconds countdown. To do that we go back to the terminal and to the Grub setting and we chnage: default=0, style=countdown and timeout=10.

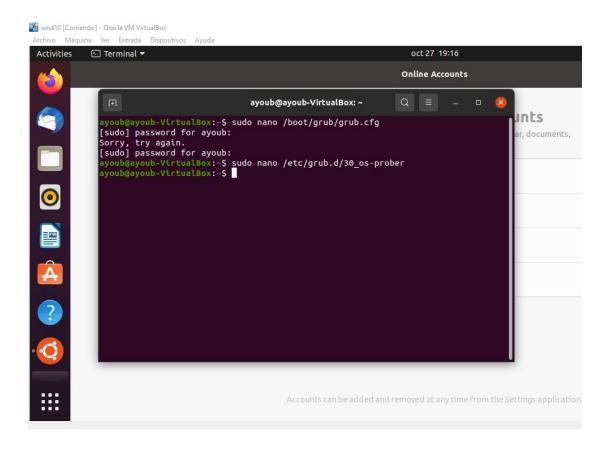


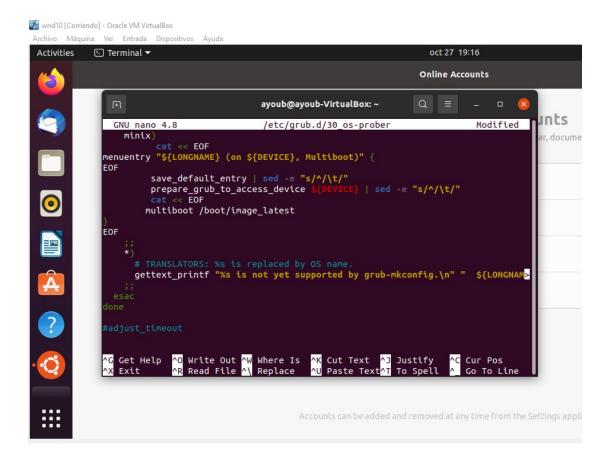


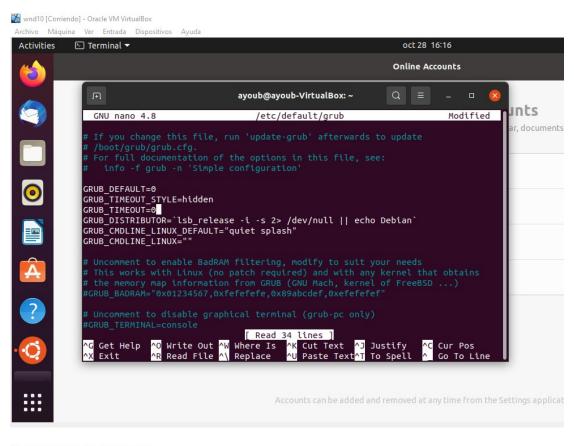


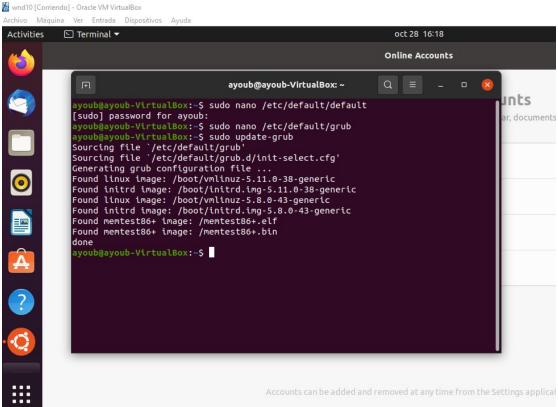


We need to use the command sudo nano/boot/grub/grub.cfg to get into this file, and in the last lines we need to put # to annule the command about set time out.



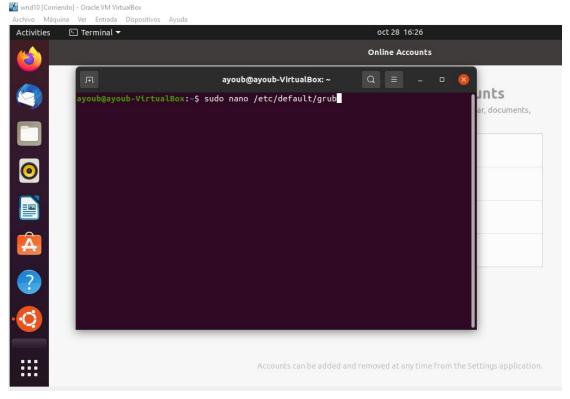




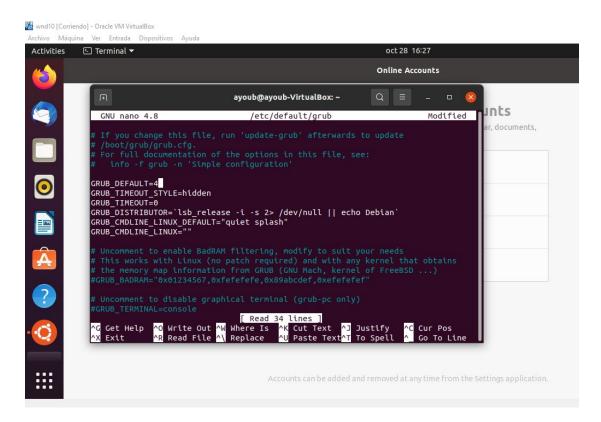


We save the changes and we try to restart:

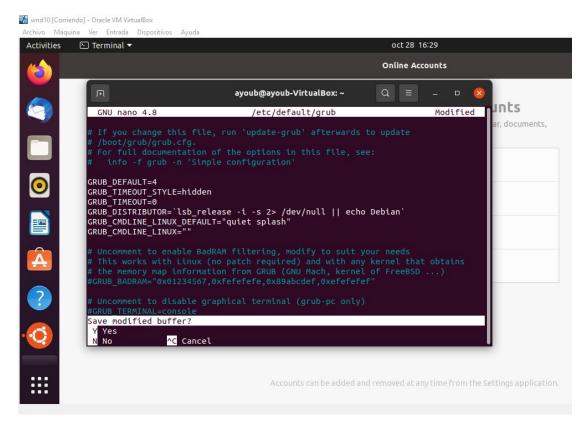




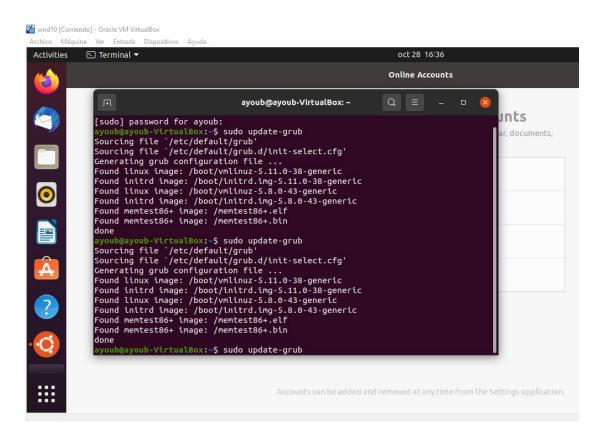
Now we need to boot Ubuntu for itme C without displaying the menu. We use the same thing we used in B item but we change the timestyle= hidden and timeout =0. We do the same thing using # to block the line inside grub.cfg.



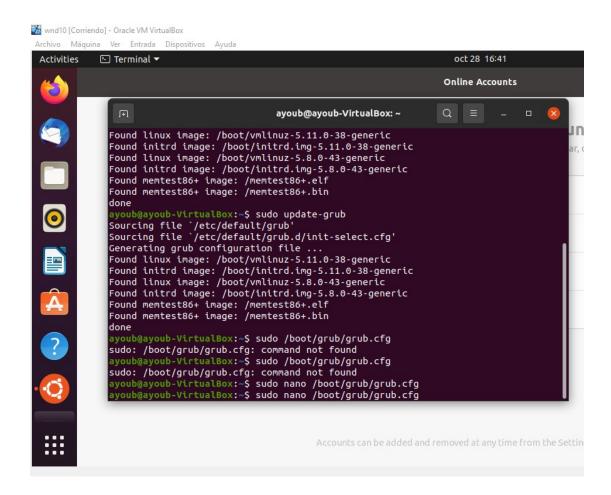
Finally the D item we need to Boot Windows without displaying the menu. To do that we do the same thing as C's item but inserting default=4

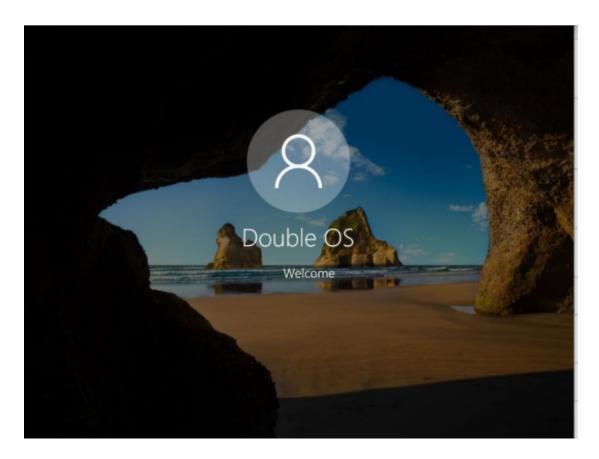


We use the sudo update-grub command

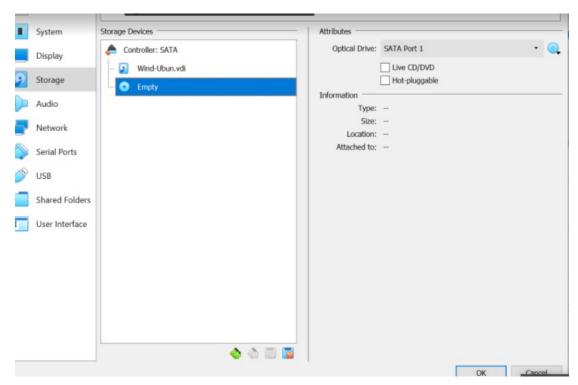


And the command sudo /boot/grub/grub.cfg to put # in the last lines where the set time it's.

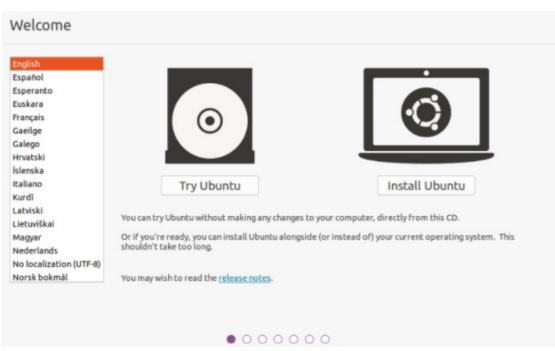




To have again the grub menu from Ubuntu we need to put the Ubuntu' Iso file again to select TRy ubuntu instead the install.

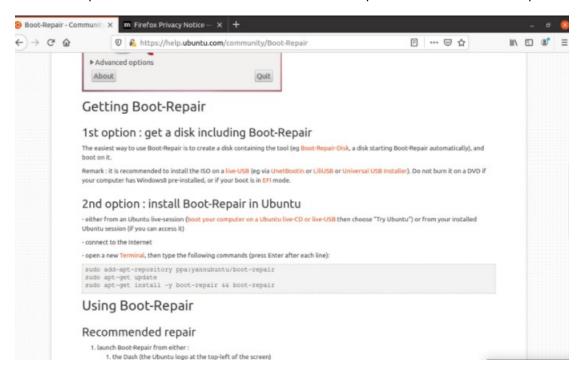




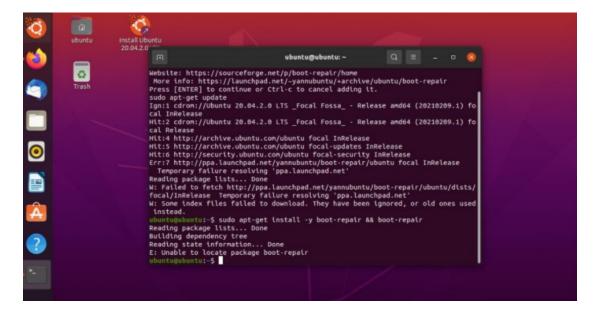


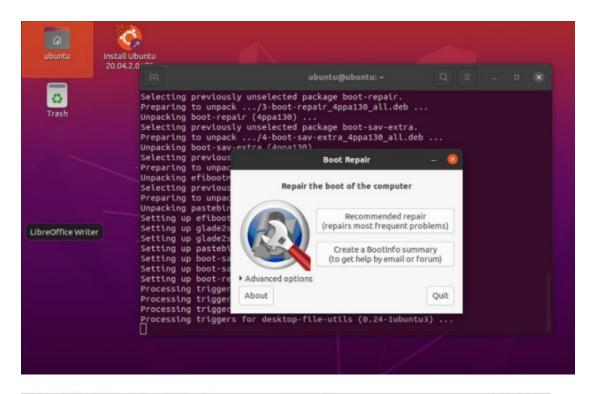


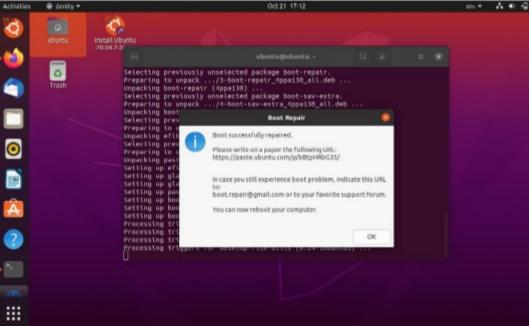
We need to put this few commandline in the terminal and press the recommended repair.



```
## wbuntu@ubuntu:~ Q ≡ _ □ 
## wbuntu@ubuntu:~$ sudo add-apt-repository ppa:yannubuntu/boot-repair
## Simple tool to repair frequent boot problems.
## website: https://sourceforge.net/p/boot-repair/home
## More info: https://launchpad.net/~yannubuntu/+archive/ubuntu/boot-repair
## Press [ENTER] to continue or Ctrl-c to cancel adding it.
## sudo apt-get update
## s
```







We start again Ubuntu and confirm grub'menu is back.

