STATEMENT

The purpose of the assignment is to create a virtual machine using the operating systems Windows 10 (or Windows 7) and Ubuntu 20.04 (older or newer versions are also valid) according to the criteria below.
You have to install the operating systems in the following order:
1. First Ubuntu.
2. Second Windows.

During the installation of each operating system, you must create all the partitions you consider necessary for Windows and Ubuntu (boot, system, etc.). You must also explain in the document your partition scheme, including partition types and file system for every single partition.

Then, if the bootloader does not work, repair it only using the command line according to the links below. The first one should work, but you have three additional resources to help you.
https://help.ubuntu.com/community/Grub2/Installing#via_ChRoot
(steps from 7 to 13).
https://howtoubuntu.org/how-to-repair-restore-reinstall-grub-2-with-a-ubuntu-live-cd

https://www.howtogeek.com/114884/how-to-repair-grub2-when-ubuntu-wont-boot/

As soon as the bootloader is working correctly, the boot order must be configured this way:

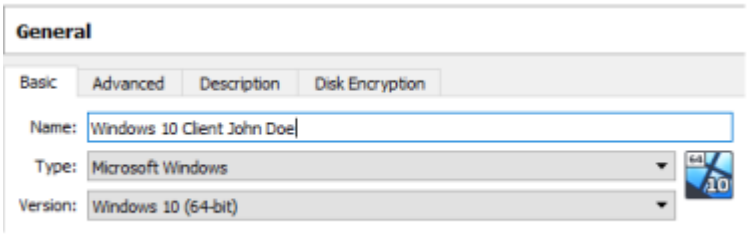
- **No menu displayed by default.**
- **Windows as default OS.**
- **Windows boots automatically after 10 seconds. You must display a countdown for that purpose.**

Finally, the virtual machine should meet the following requirements:

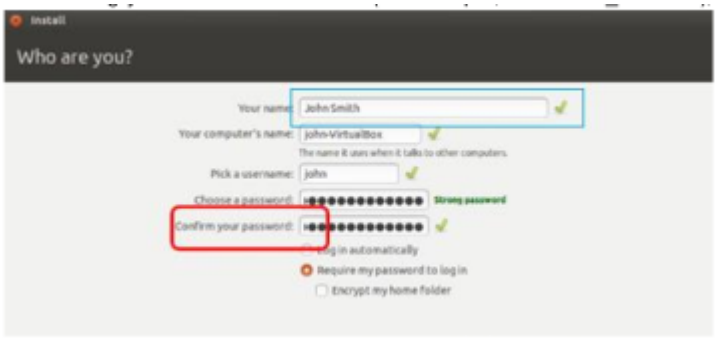
- **A shared folder to an external storage device that you can access from both Operating systems.**
- **Internet connection.**

INSTRUCTIONS

- You must create a document with screenshots to demonstrate that everything works.
  You need to implement the assignment in virtual machines identified with your name (for example, Windows 10 Client John Doe).



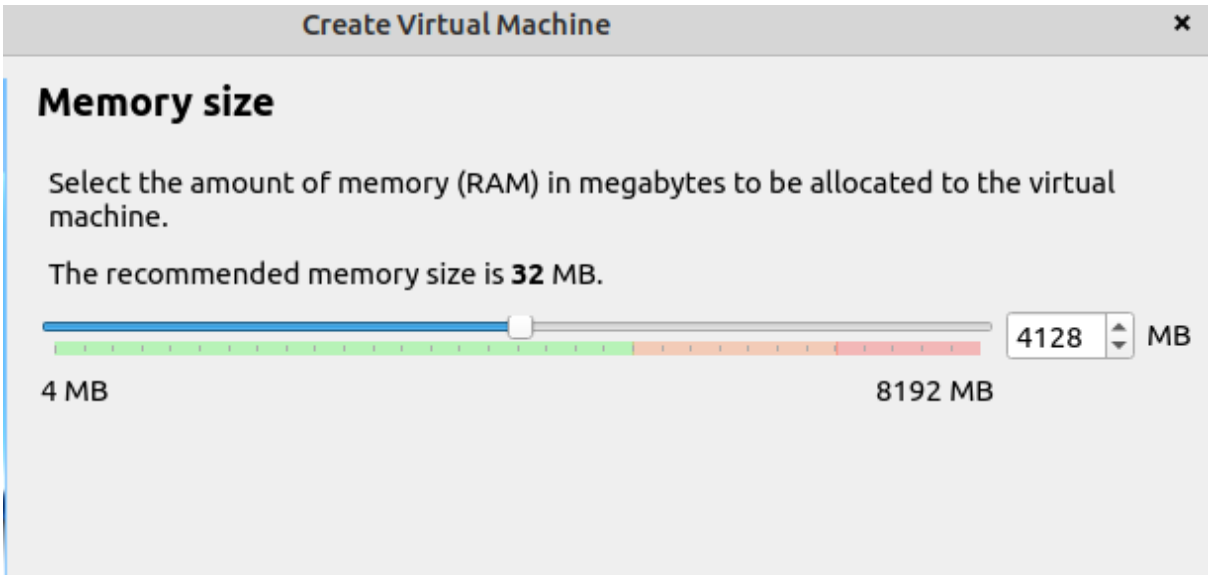
- You must also use other elements to identify that the assignment is individual. For example: username like your real name (like in the picture below), disk name using your name and surname (for example, disk “John_Doe.vdi”), etc.



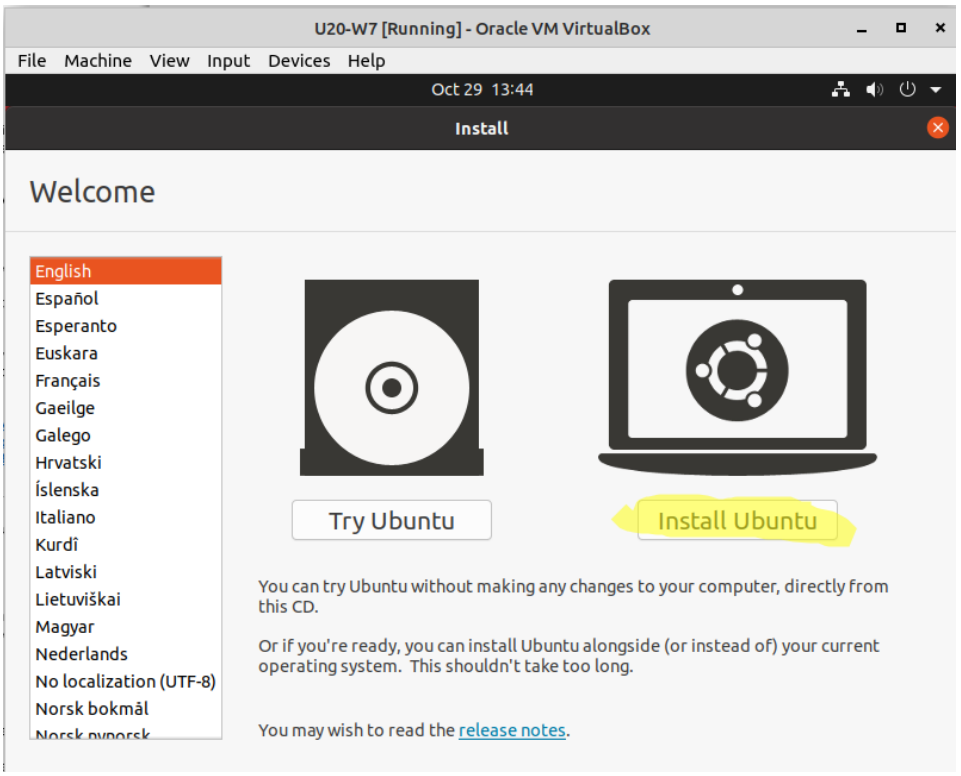
- Do not delete the virtual machine. This could be required if the statement is not clear enough to demonstrate that you are not cheating.
- Once finished the assignment, you must submit a PDF through the virtual classroom. The name must be “Unit2_Name_Surname.pdf”. For example, if your name is John Doe, the file name will be “Unit2_John_Doe.pdf”. Otherwise, the assignment will not be valid and you will get 0 marks.

1. First Ubuntu.

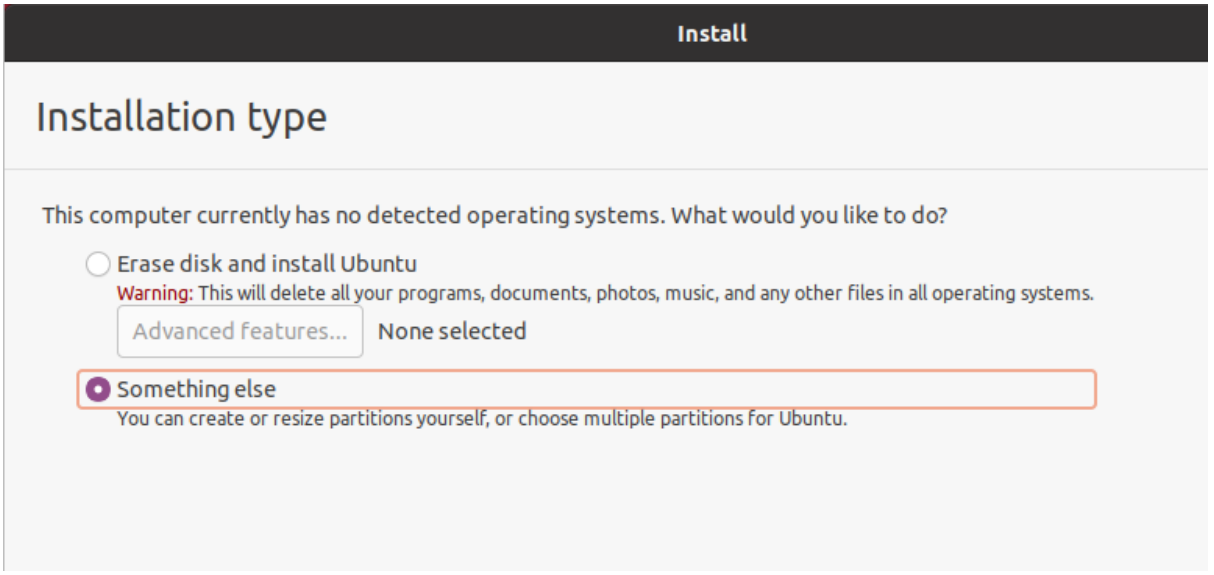
WE CREATE THE VIRTUAL MACHINE WITH 4GB AND 88GB.



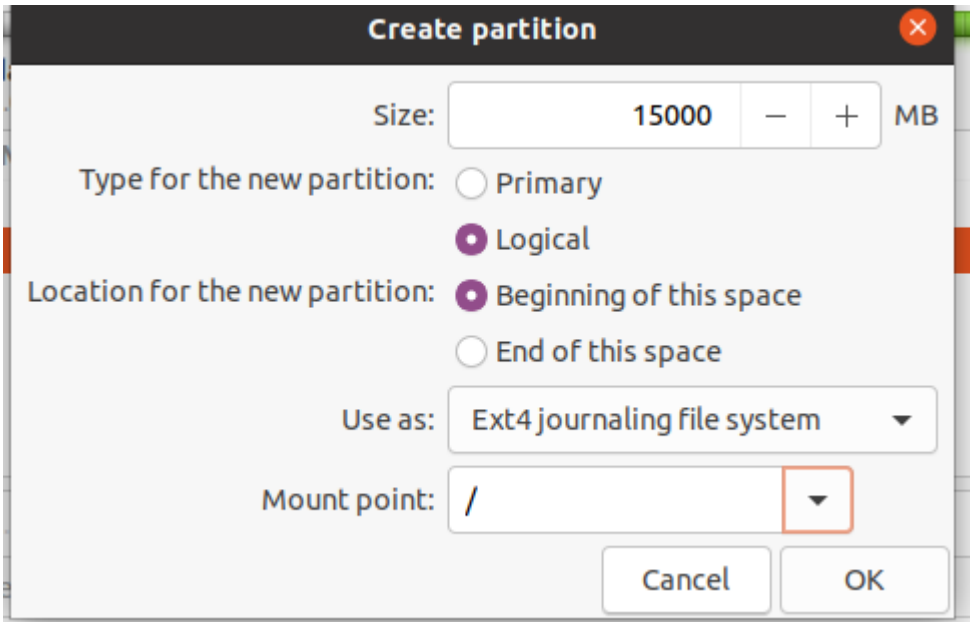
WE INSTALL UBUNTU,



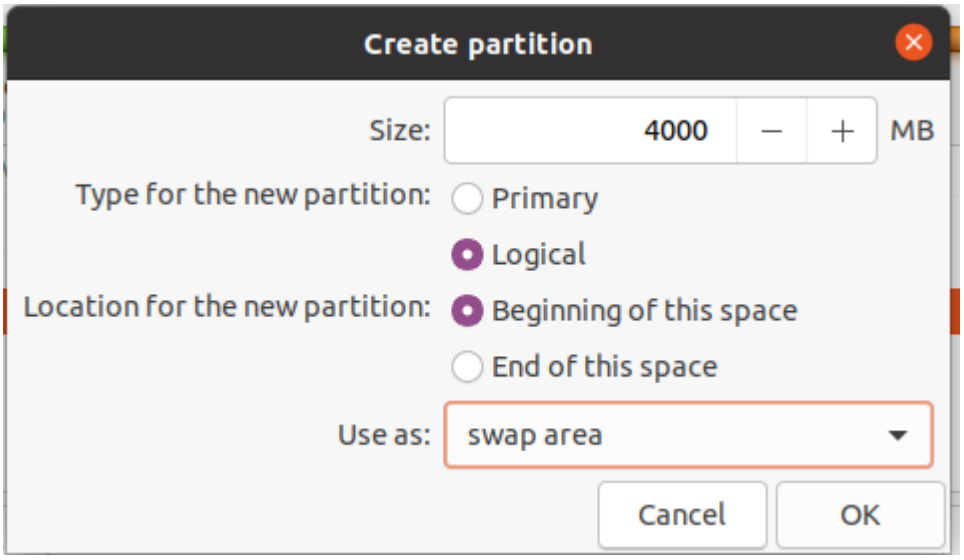
AS ALWAYS WE CHOOSE LANGUAGE, KEYBOARD… AND IN THE INSTALLATION TYPE WE WILL CHOOSE SOMETHING ELSE WHERE WE ARE GOING TO CREATE OUR PARTITIONS.



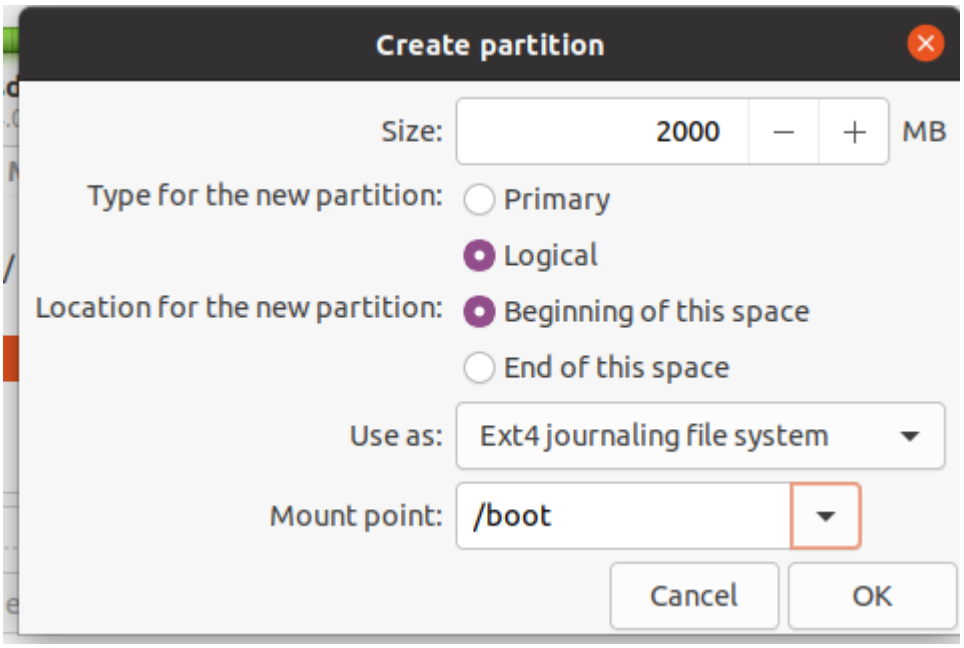
THIS PARTITION ARE GOING TO BE FOR UBUNTU SO, WE FIRST CREATE THE ROOT PARTITION WITH 15000MB



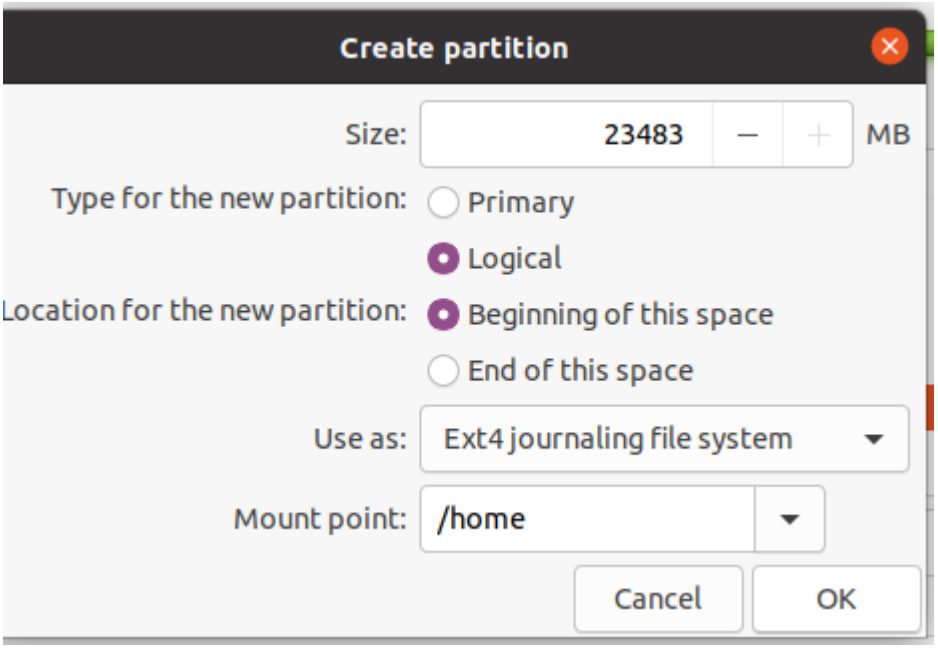
SWAP AREA WITH 4000MB



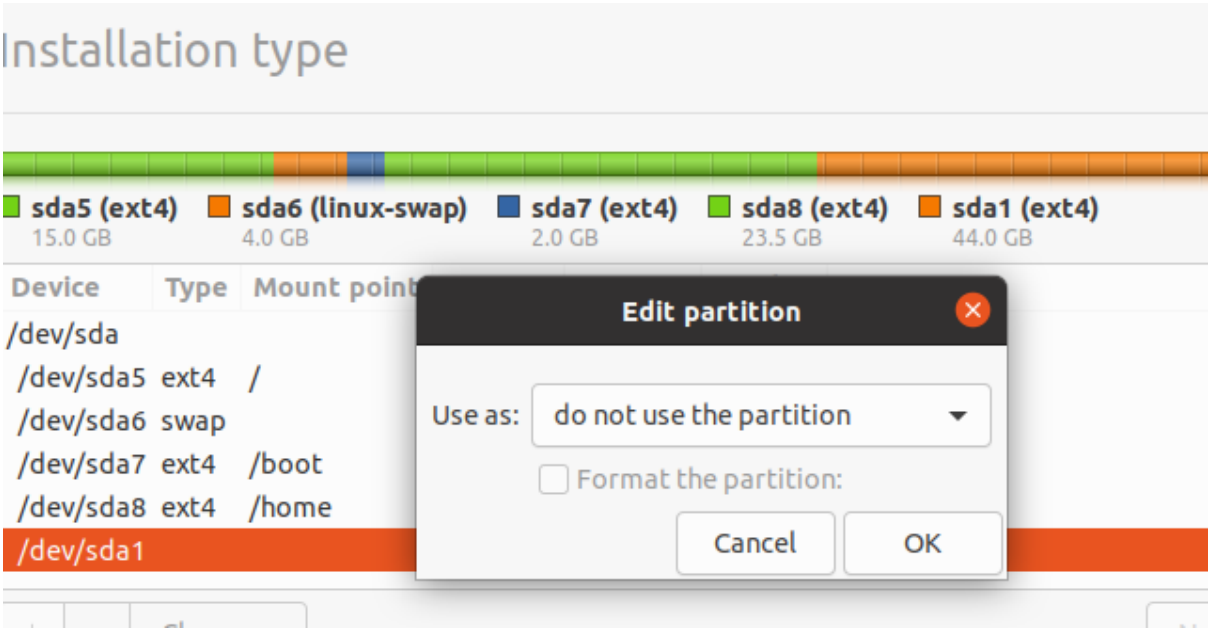
/BOOT 2000MB



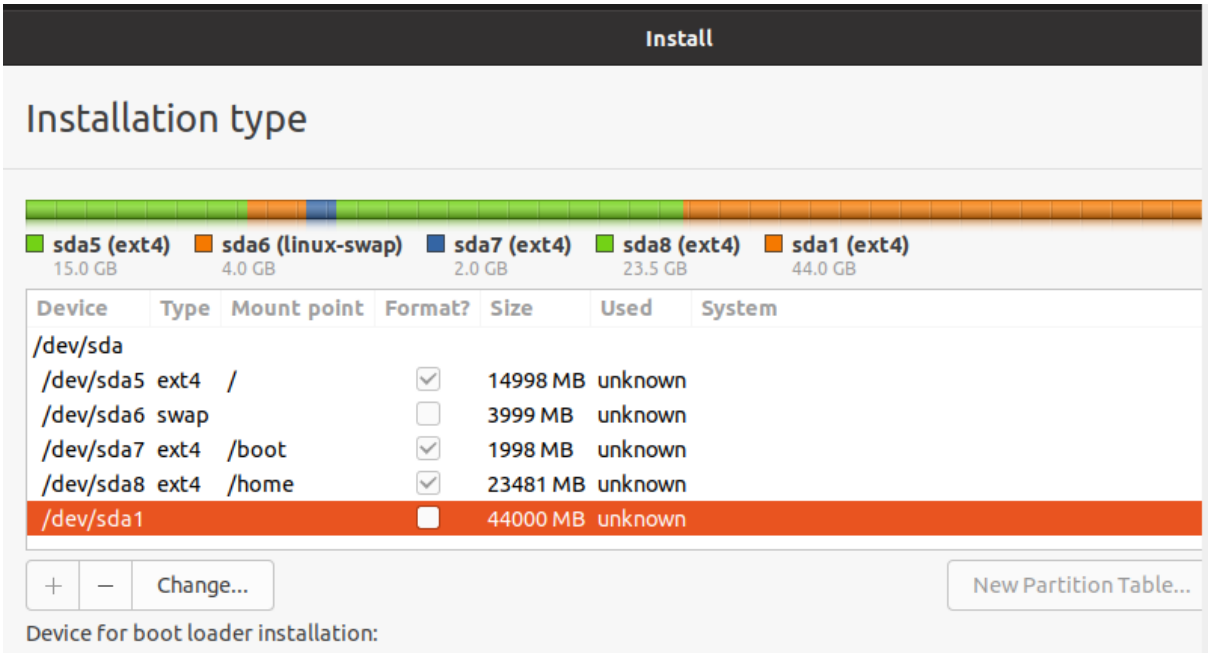
AND /HOME WE WILL PUT 23483MB.

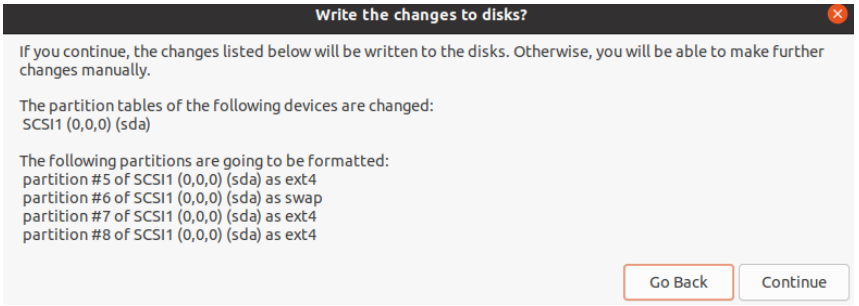


I MADE THIS BUT IT WAS WRONG. THIS WAS GOING TO BE THE PARTITION FOR WINDOWS 7 ISO, SO I DIDN'T KNOW HOW TO DO IT SO IN CASE I CREATE A PARTITION WITH 40000MB AND SAID THAT DO NOT USE THE PARTITION, WE WILL SEE LATER WHAT I DID TO SOLVE THIS.

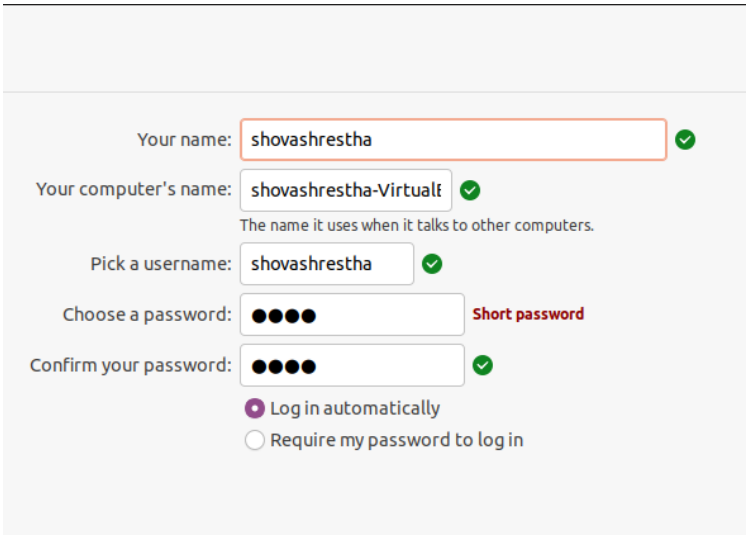


SO THIS IS OUR PARTITION TABLE.

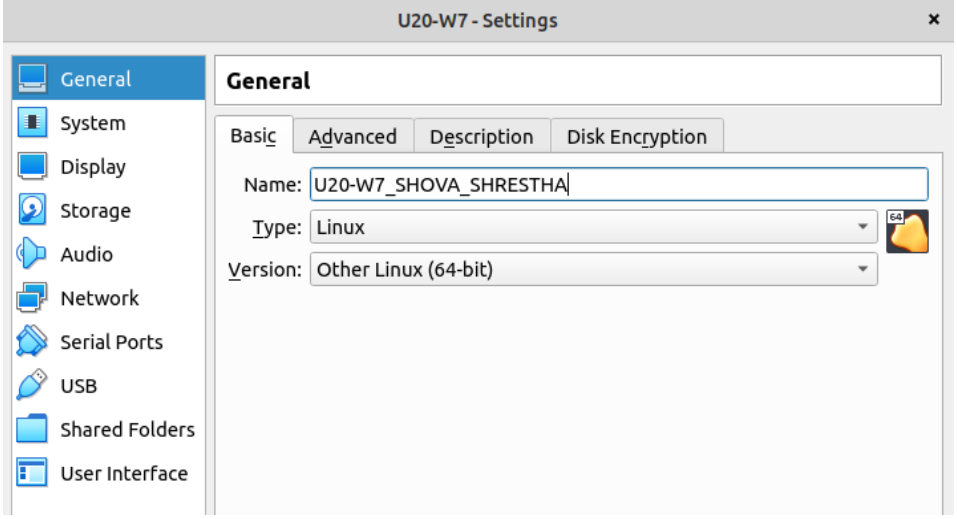




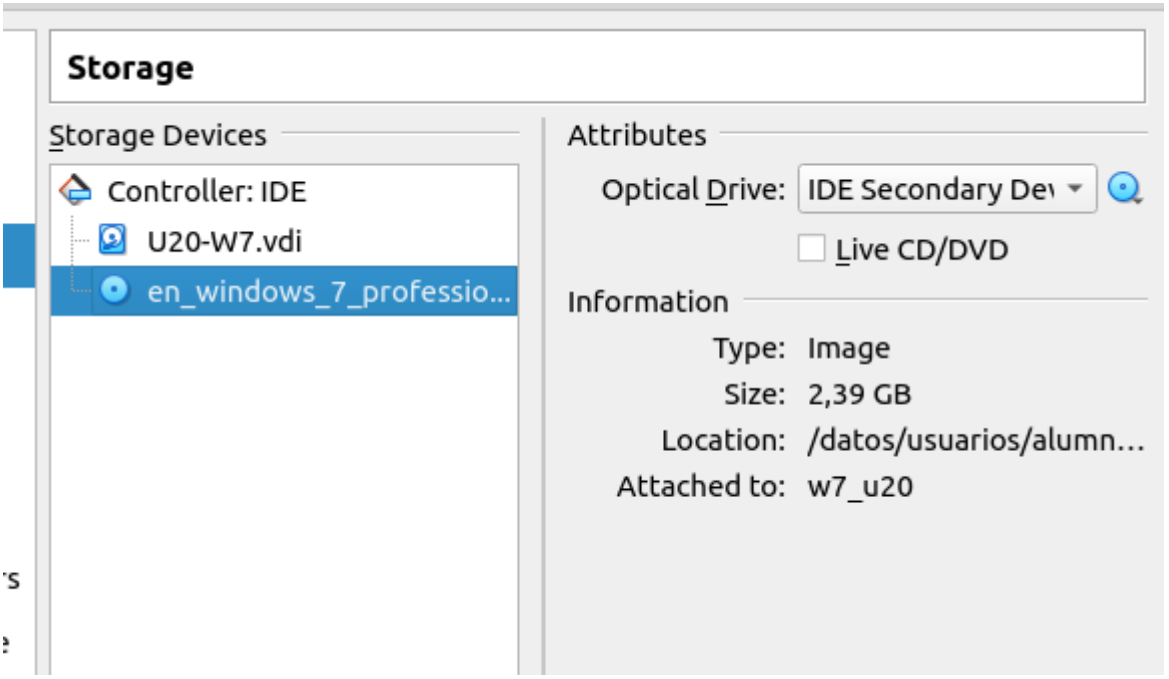
IN NAME I HAVE PUT MY NAME AND SURNAME

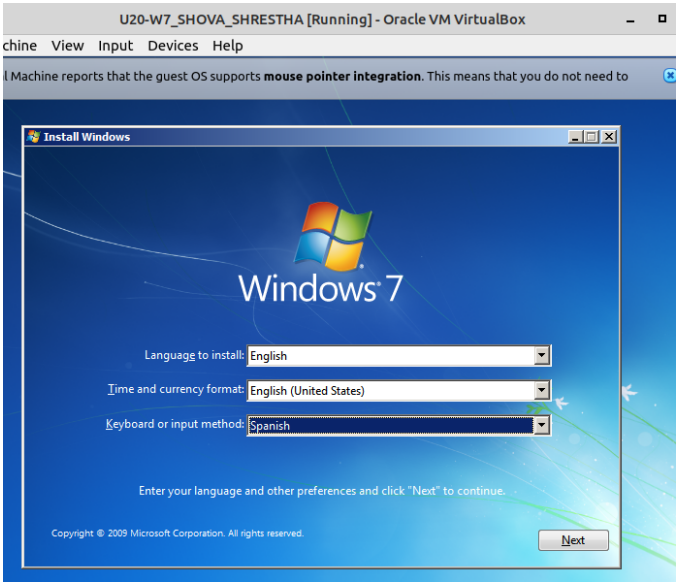


I DIDN'T PUT TO THE VIRTUAL MACHINE A CORRECT NAME, SO I CHANGE IT.

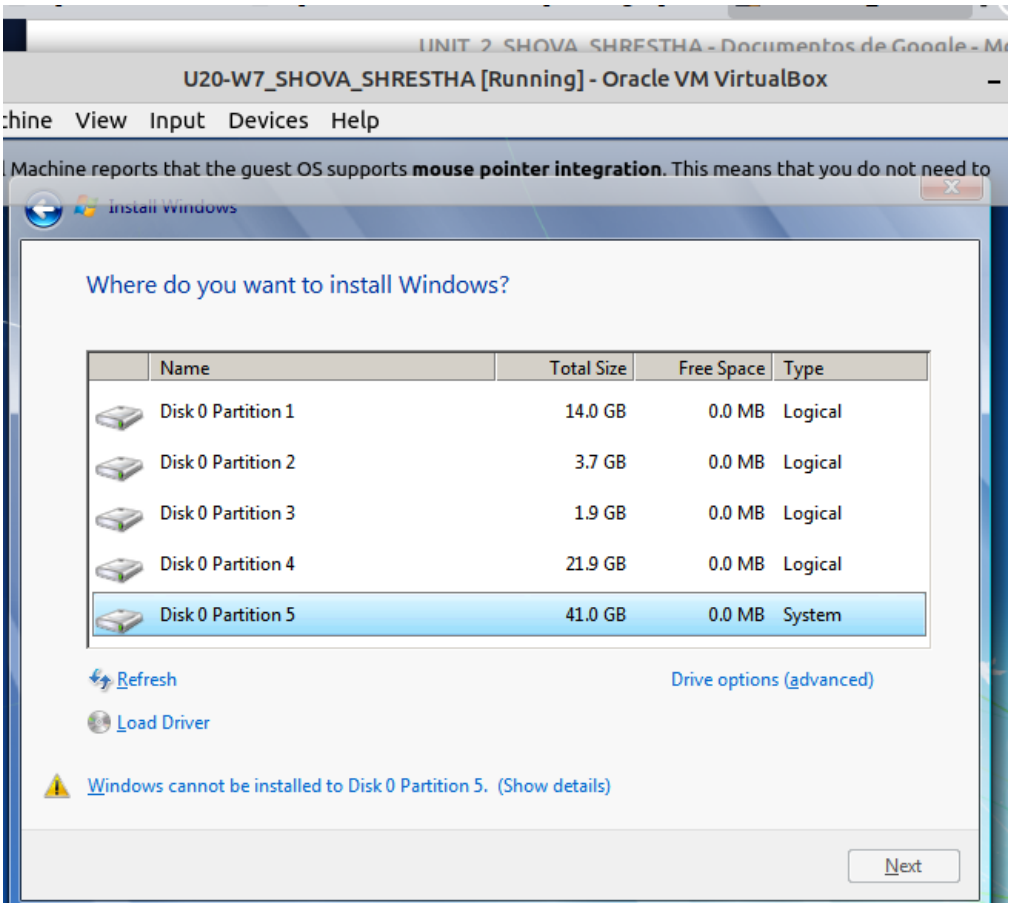


NOW IT'S TIME TO INSTALL WINDOWS 7, IN STORAGE WE CHOOSE TO PUT IN THE CD WINDOWS 7 ISO.

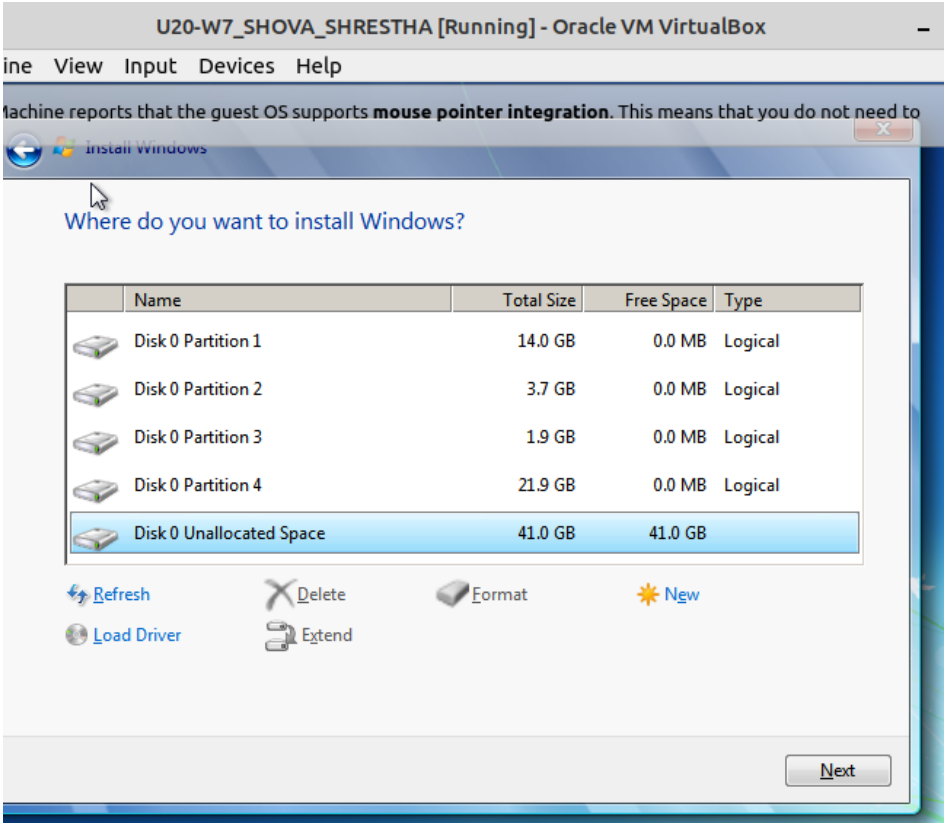


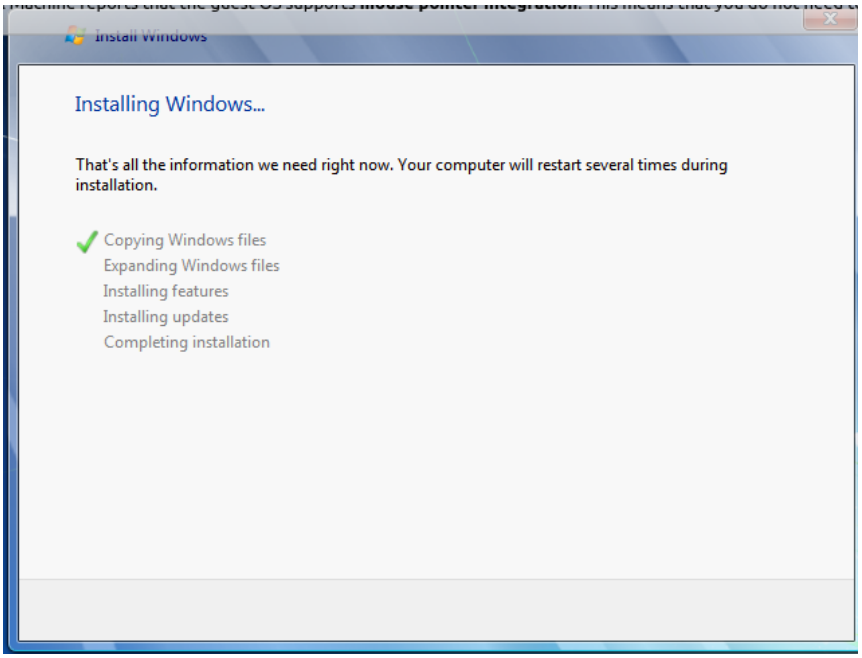


AS I SAID BEFORE NOW THAT I WANT TO INSTALL WINDOWS 7 IT CAN'T BE AS WE CAN SEE IT SAYS **WINDOWS CANNOT BE INSTALLED TO DISK 0 PARTITION 5** TO SOLVE THIS PROBLEM WE CLICK IN REFRESH AND THEN CLICK TO DELETE

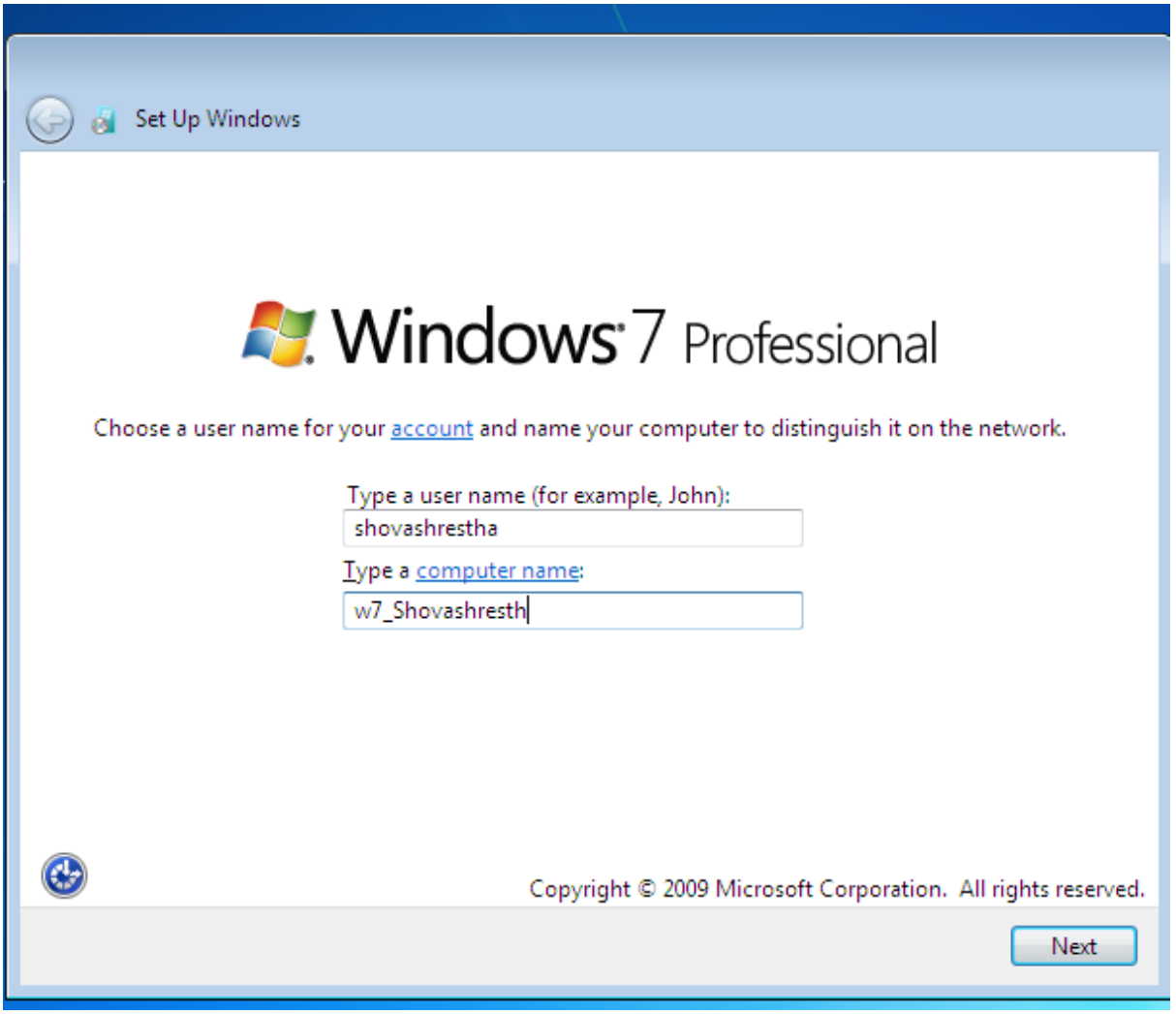


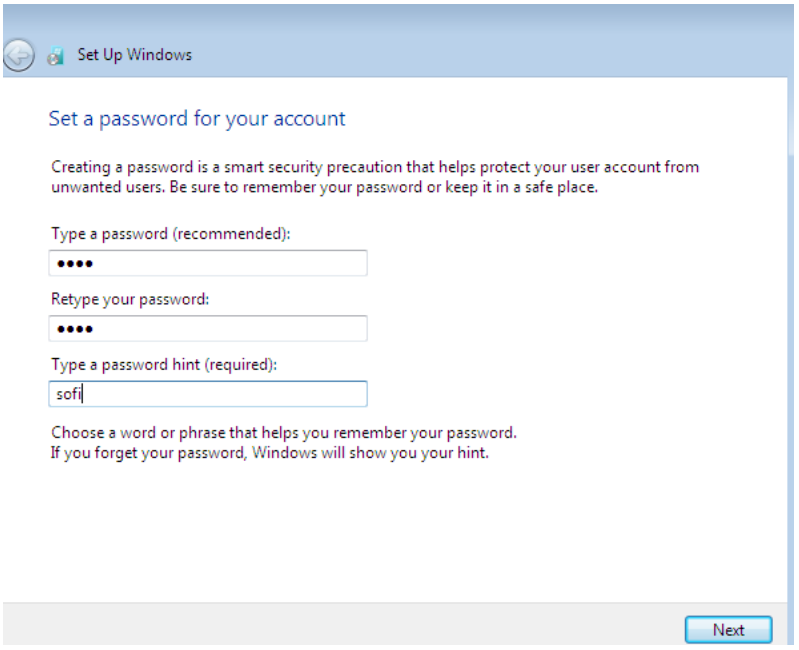
THE PARTITION DOING THAT WE WILL HAVE AN UNALLOCATED SPACE, WE CHOOSE THAT DISK, THEN IT WILL BE POSSIBLE TO INSTALL WINDOWS



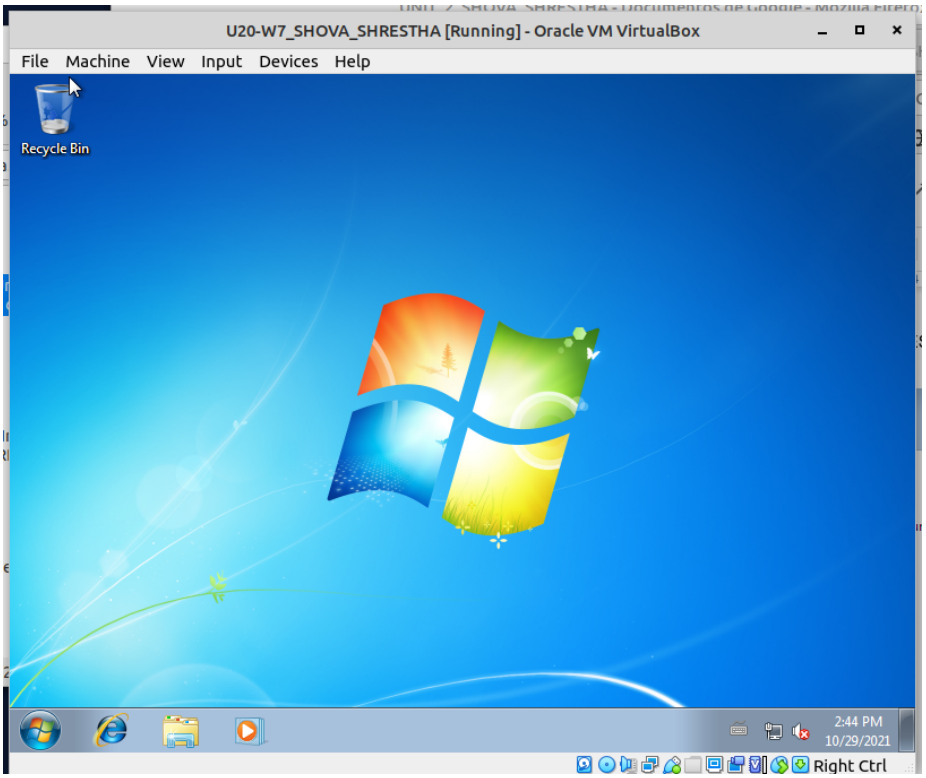


WE PUT OUR NAME AND SURNAME

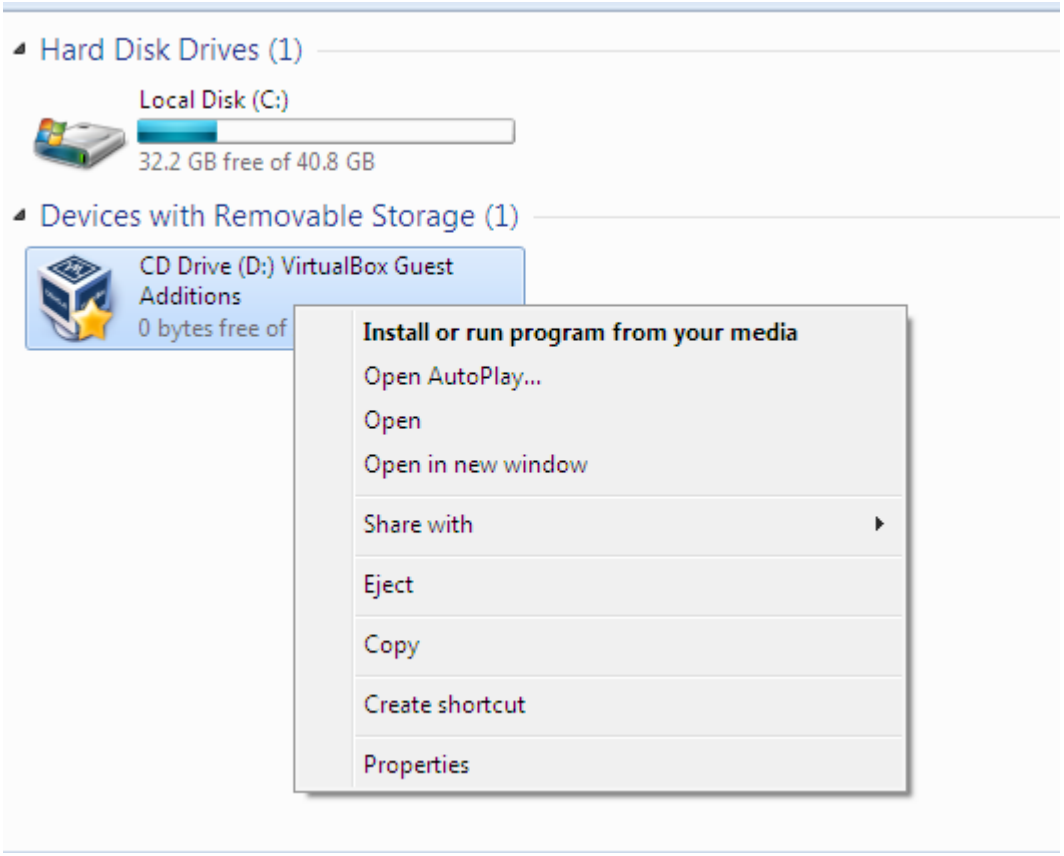

Set Up Windows
Windows 7 Professional
Choose a user name for your account and name your computer to distinguish it on the network.
Type a user name (for example, John):
shovashrestha
Type a computer name:
w7_Shovashresth
Copyright © 2009 Microsoft Corporation. All rights reserved.
Next


Set Up Windows
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.
Next

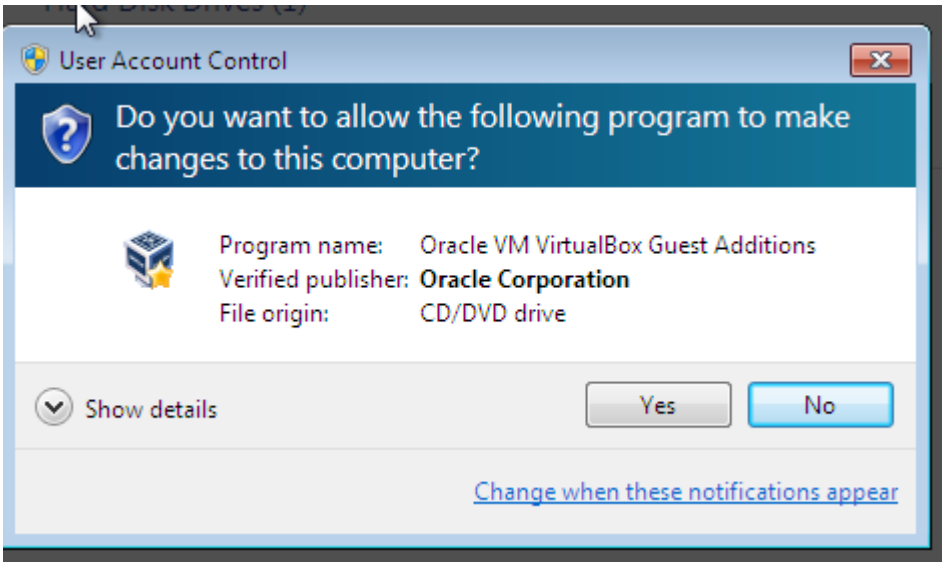
AND IT'S DONE



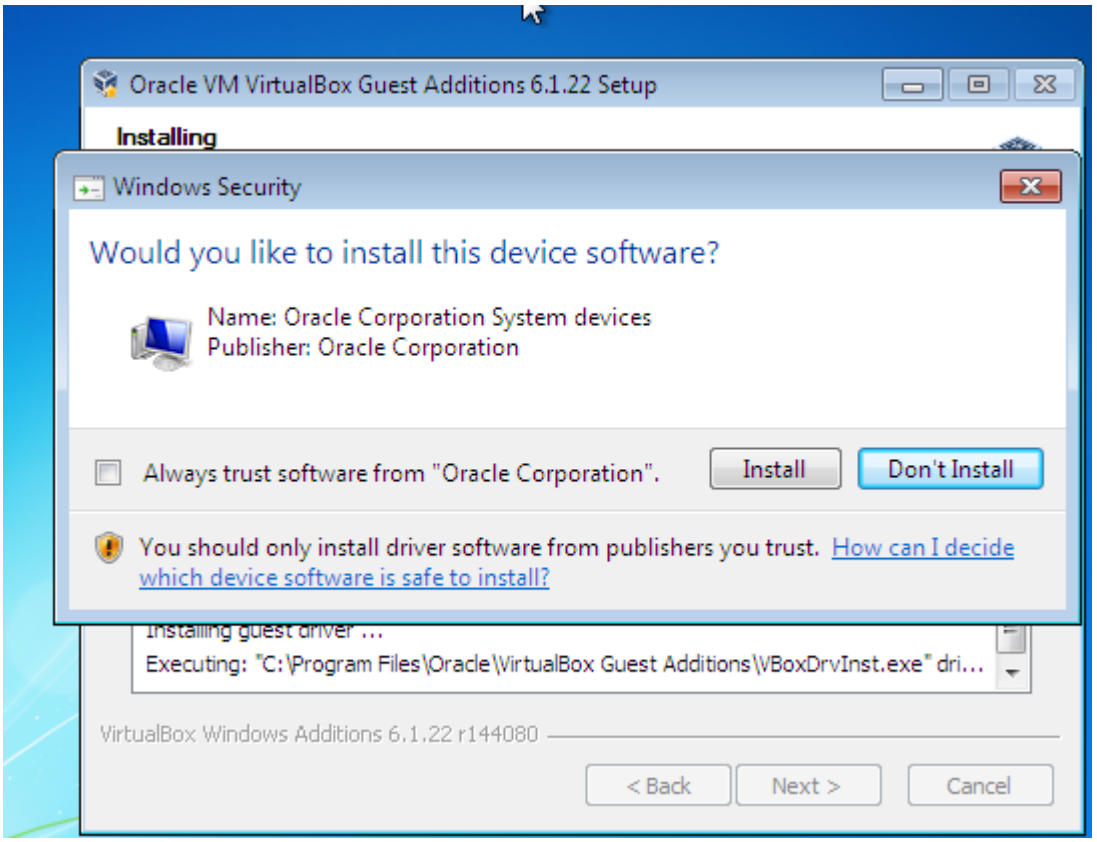
AS WE NEED TO DO AND OTHER EXERCISE LATER I WILL INSTALL GUEST ADDITIONS, SO LATER WE CAN USE IT AND SHARE FOLDERS.



WE CLICK YES



INSTALL




U20-W7_SHOVA_SHRESTHA [Running] - Oracle VM VirtualBox
Input Devices Help
shovashrestha
Password

AFTER INSTALLING WINDOWS 7 THE VIRTUAL MACHINE OPENED ONLY THE WINDOWS, UBUNTU 20 WAS DISAPPEAR, SO WE NEED TO PUT IN THE CD UBUNTU AGAIN AND JUST CLICK IN **TRY UBUNTU,** WE OPEN THE TERMINAL AND WE PUT THIS COMMANDS. WE NEED THIS TO REPAIR THE BOOTLOADER.

https://www.howtogeek.com/114884/how-to-repair-grub2-when-ubuntu-wont-boot/

sudo apt-add-repository ppa:yannubuntu/boot-repair

sudo apt-get update

sudo apt-get install -y boot-repair

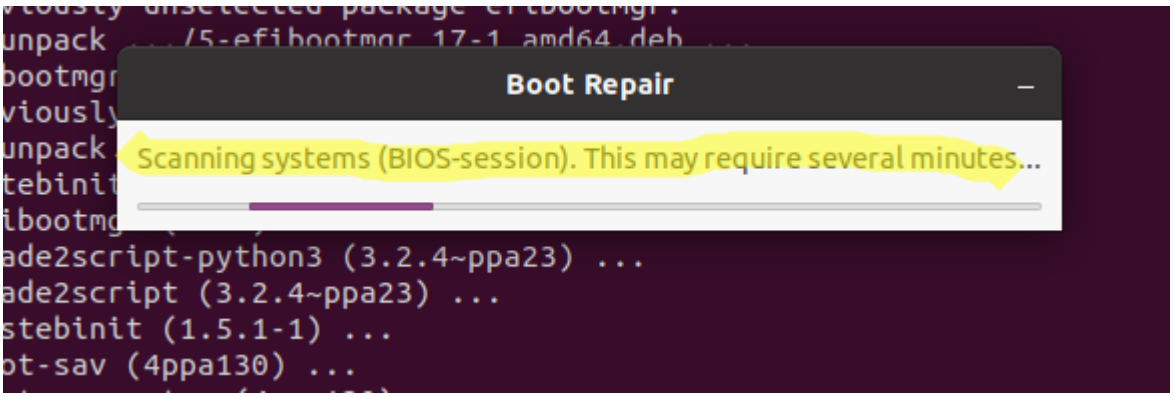
boot-repair

```
ubuntu@ubuntu:~$ sudo apt-add-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.

Ign:1 cdrom://Ubuntu 20.04.2.0 LTS _Focal Fossa_ - Release amd64 (20210209.1) f
ocal InRelease
Hit:2 cdrom://Ubuntu 20.04.2.0 LTS _Focal Fossa_ - Release amd64 (20210209.1) f
ocal Release
Get:3 http://ppa.launchpad.net/yannubuntu/boot-repair/ubuntu focal InRelease [1
7.5 kB]
Hit:4 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:6 http://archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:7 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:8 http://ppa.launchpad.net/yannubuntu/boot-repair/ubuntu focal/main amd64 P
ackages [1,792 B]
Get:9 http://ppa.launchpad.net/yannubuntu/boot-repair/ubuntu focal/main Transla
tion-en [1,596 B]
Fetched 20.9 kB in 0s (45.7 kB/s)
Reading package lists... Done
ubuntu@ubuntu:~$ sudo apt-get update
Ign:1 cdrom://Ubuntu 20.04.2.0 LTS _Focal Fossa_ - Release amd64 (20210209.1) f
ocal InRelease
Hit:2 cdrom://Ubuntu 20.04.2.0 LTS _Focal Fossa_ - Release amd64 (20210209.1) f
```

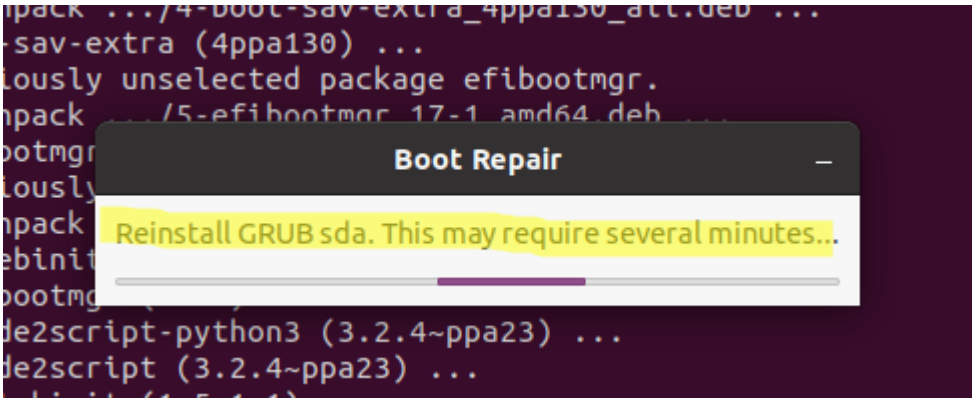
```
ubuntu@ubuntu:~$ sudo apt-get install -y boot-repair
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  boot-sav boot-sav-extra efibootmgr glade2script glade2script-python3
  pastebinit
Suggested packages:
  boot-info mdadm os-uninstaller gir1.2-appindicator3-0.1
```

```
Setting up boot-sav (4ppa130) ...
Setting up boot-sav-extra (4ppa130) ...
Setting up boot-repair (4ppa130) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
ubuntu@ubuntu:~$ boot-repair
```

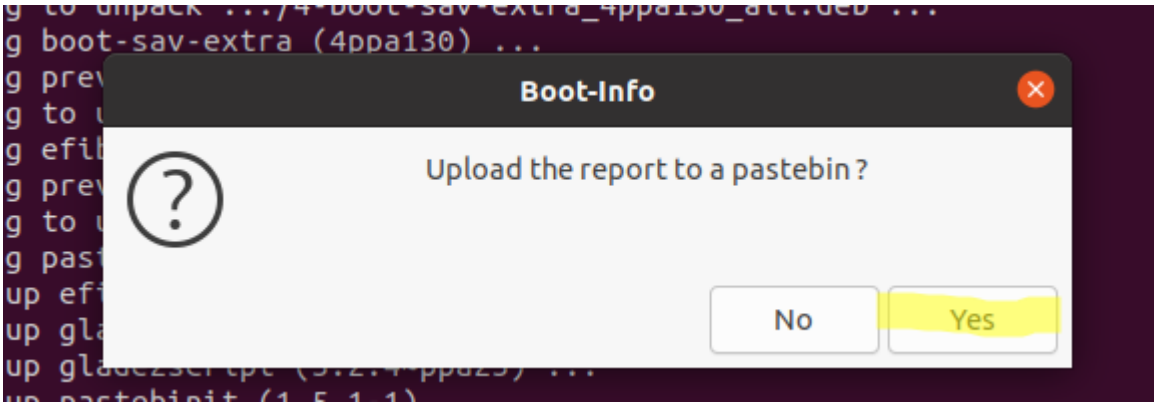
IT WILL APPEAR THIS TAB WHICHT IS SCANNING THE SYSTEM

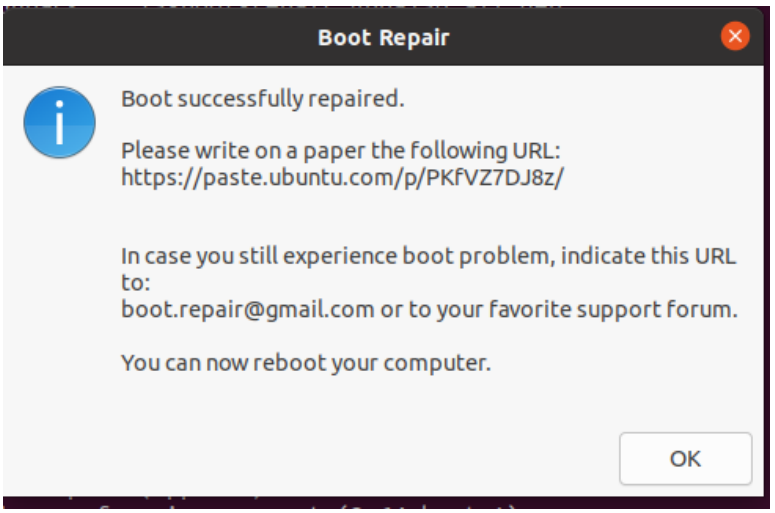


INSTALL GRUB SADA

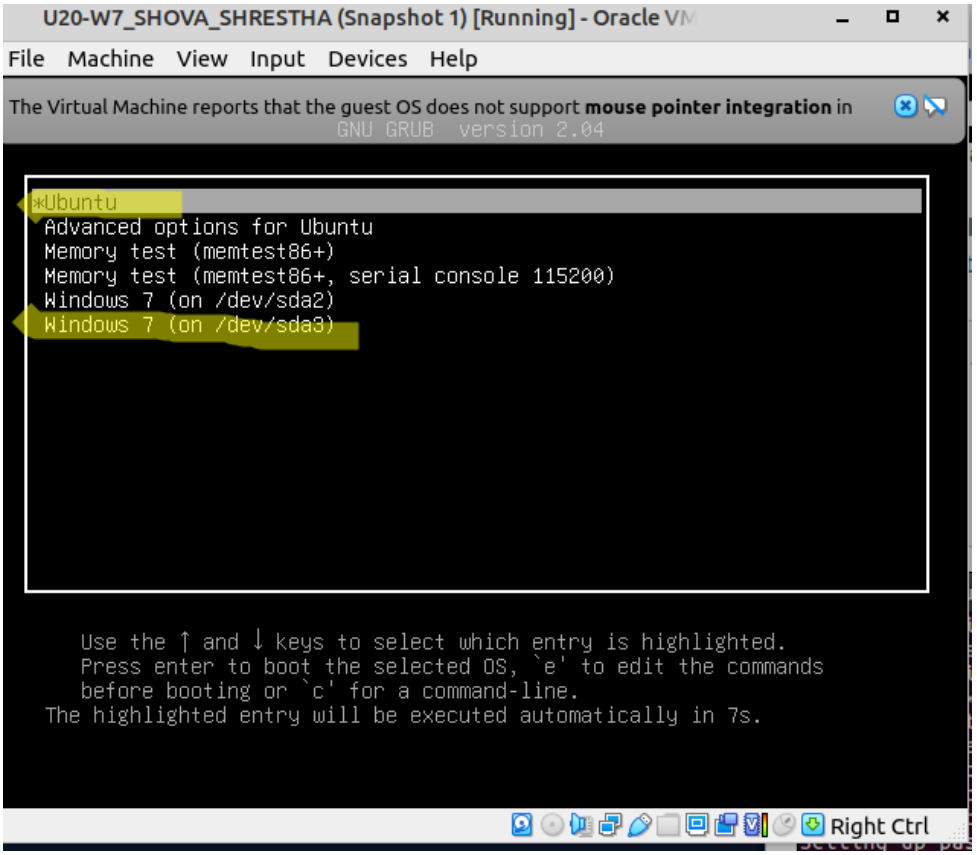


IT ASK IF WE WANT A REPORT, WE SAY YES



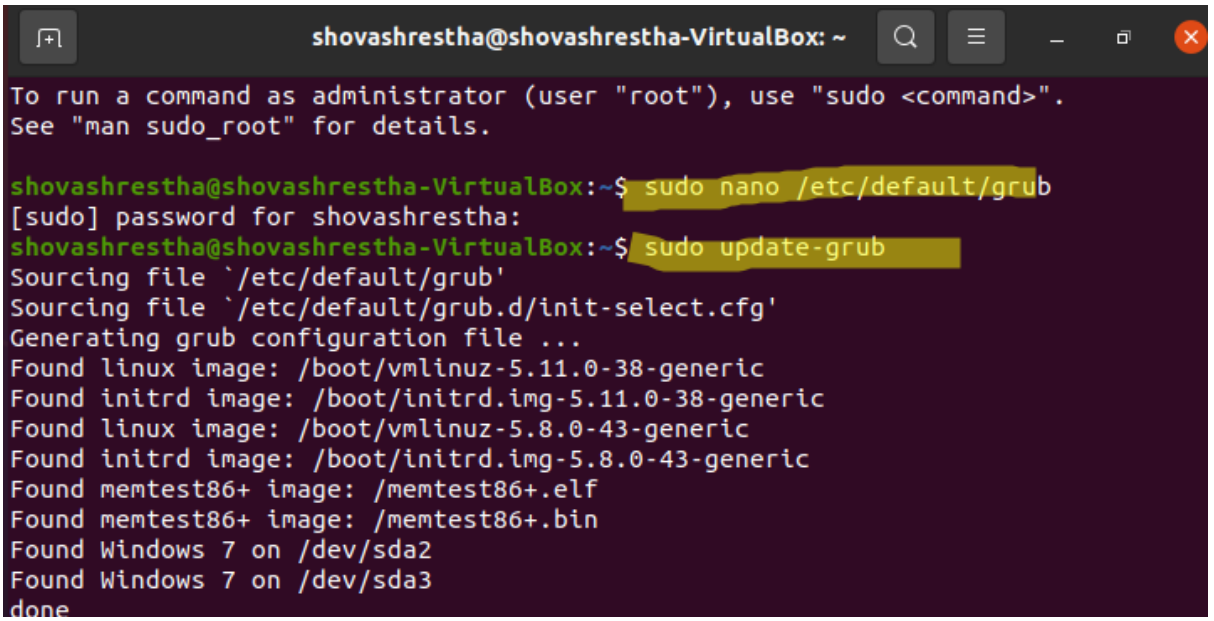


AND WE SEE THAT IT WORK WE CAN SEE OUR TWO SYSTEMS UBUNTU AND WINDOWS 7

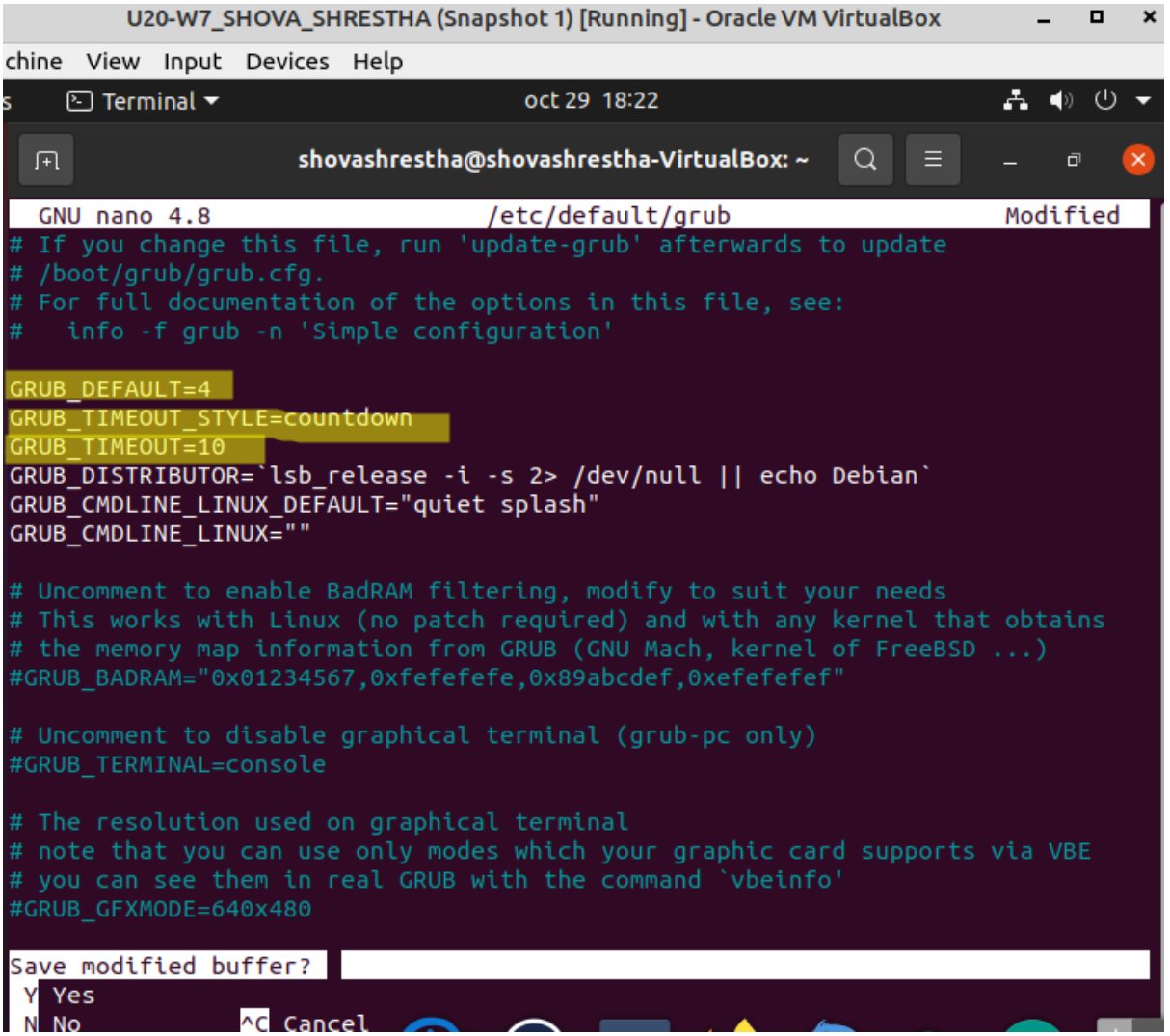


- **No menu displayed by default.**
- **Windows as default OS.**
- **Windows boots automatically after 10 seconds. You must display a countdown for that purpose.**

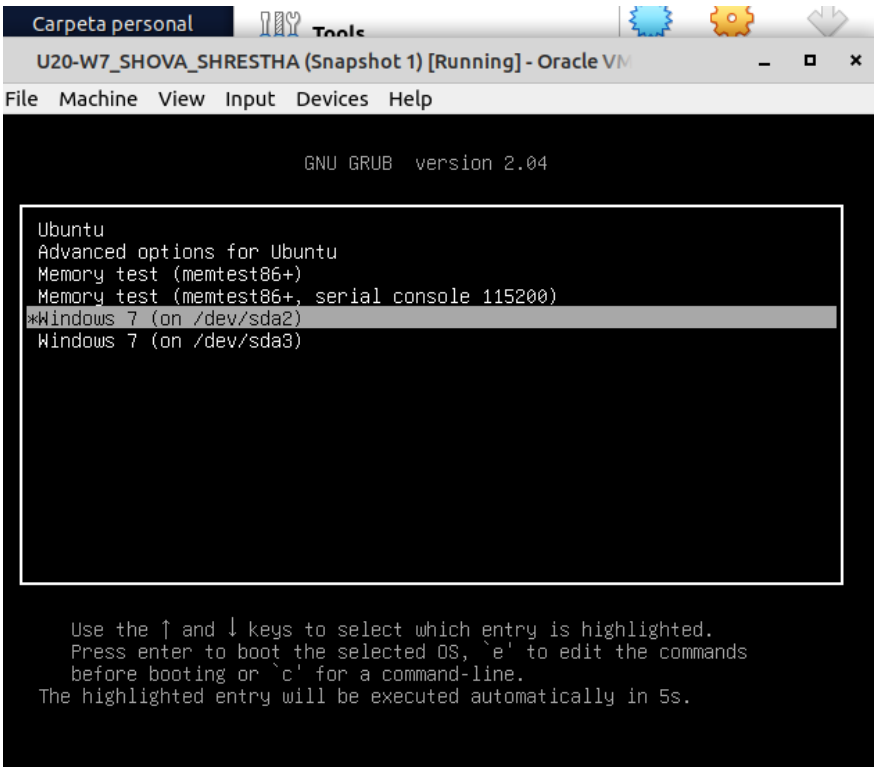
WE ARE GOING TO MODIFY GRUB SO WE CAN CHANGE HOW TO START THE MACHINE WITHOUT A MENU, WINDOWS AS THE DEFAULT OS, 10 SECOND AND WITH A COUNTDOWN.
SO FIRST WE OPEN THE TERMINAL AND OPEN GRUB DOCUMENT WITH THE COMMAND sudo nano /etc/default/grub AFTER WE MODIFY THE DOCUMENT WE UPDATE IT WITH sudo update-grub



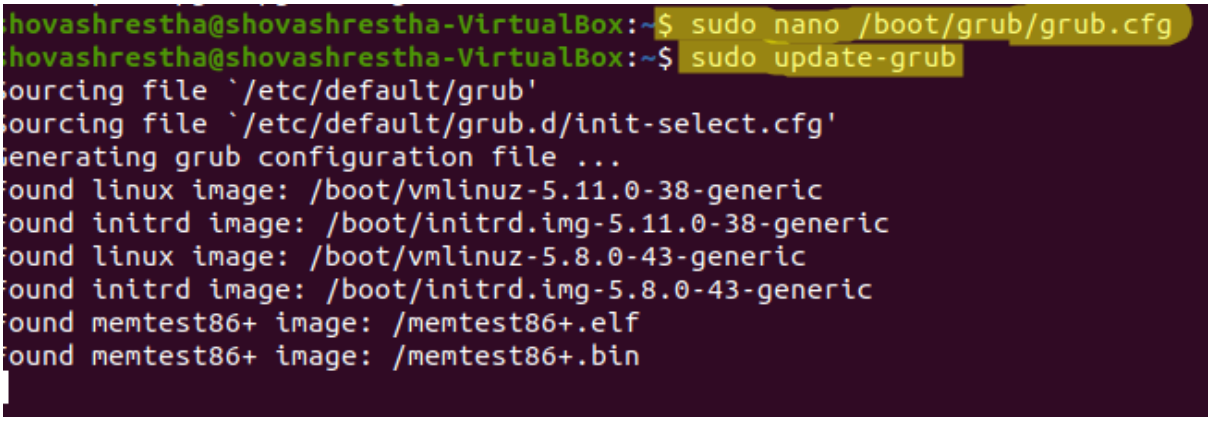
HERE WE CAN SEE THE MODIFICATION, IN
GRUB_DEFAOULT WILL BE WINDOWS 7 SO IT'S NUMBER 4
WE NEED TO PUT IN GRUB_TIMEOUT_STYLE THE COUNTDOWN
AND IN GRUB_TIMEOUT 10 SECONDS.

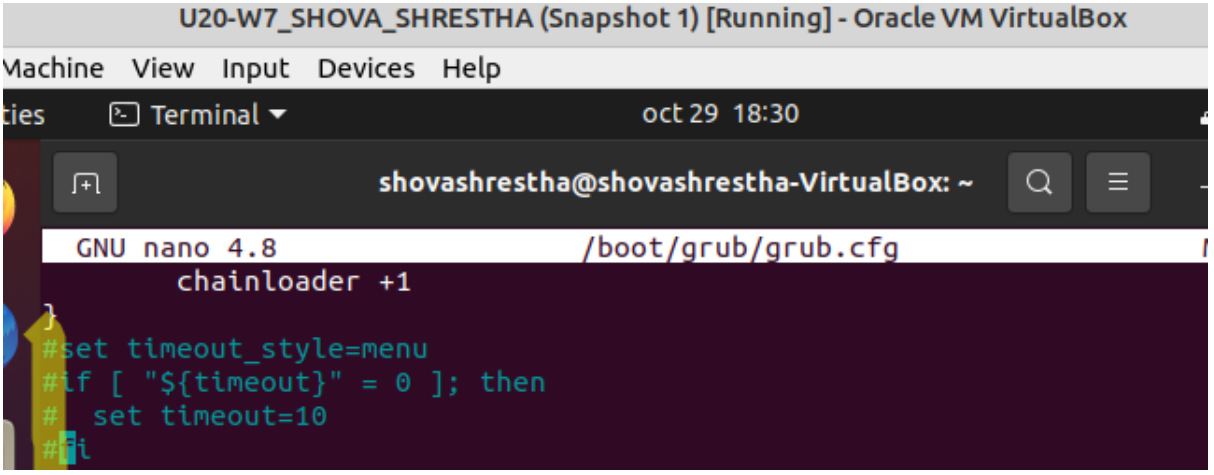


IT DIDN'T WORK THE COUNTDOWN

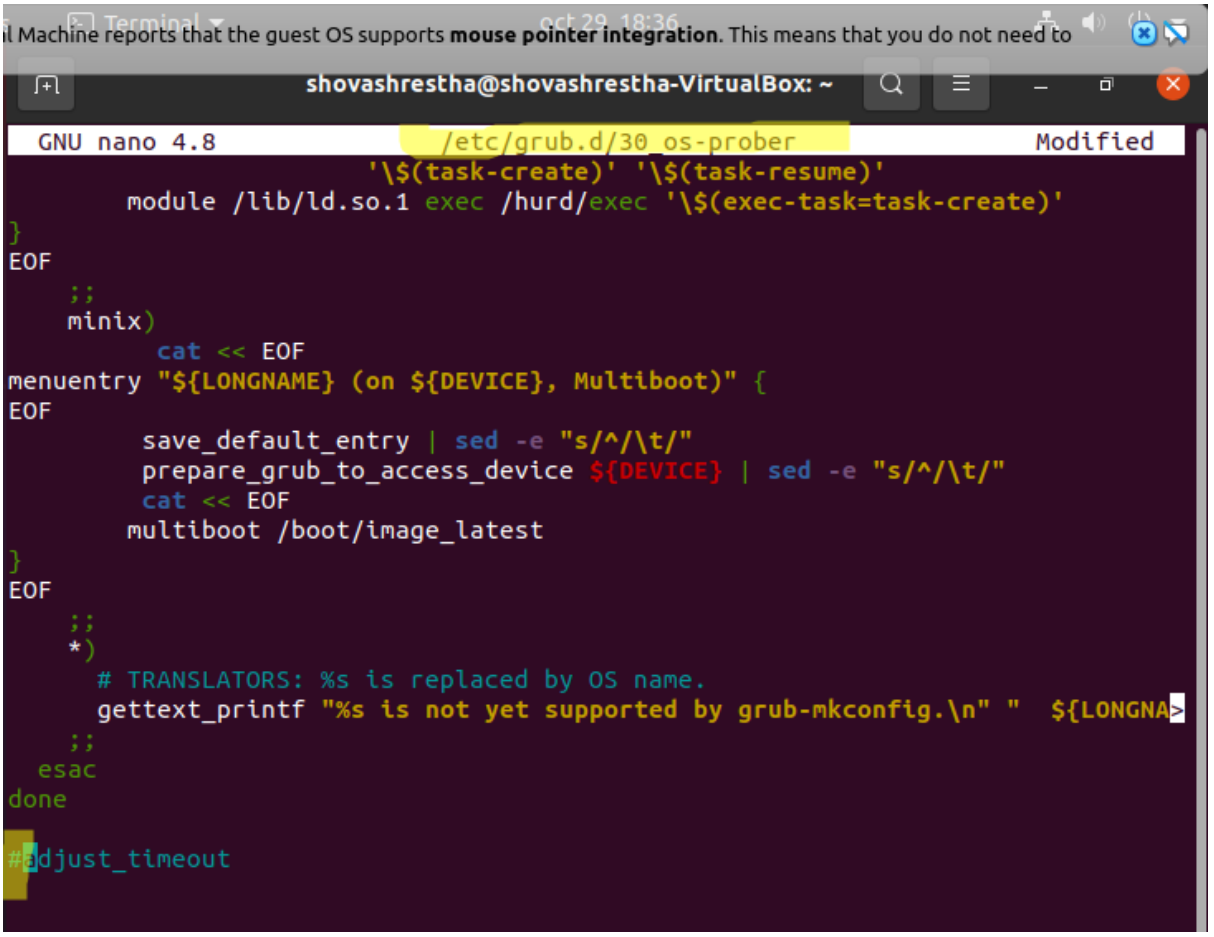


IT DIDN'T WORK BECAUSE I TRY TO UPDATE GRUB WHEN I CHANGE THE DOCUMENT GRUB.CFG, BUT IT HAS NEVER BEEN UPDATED.





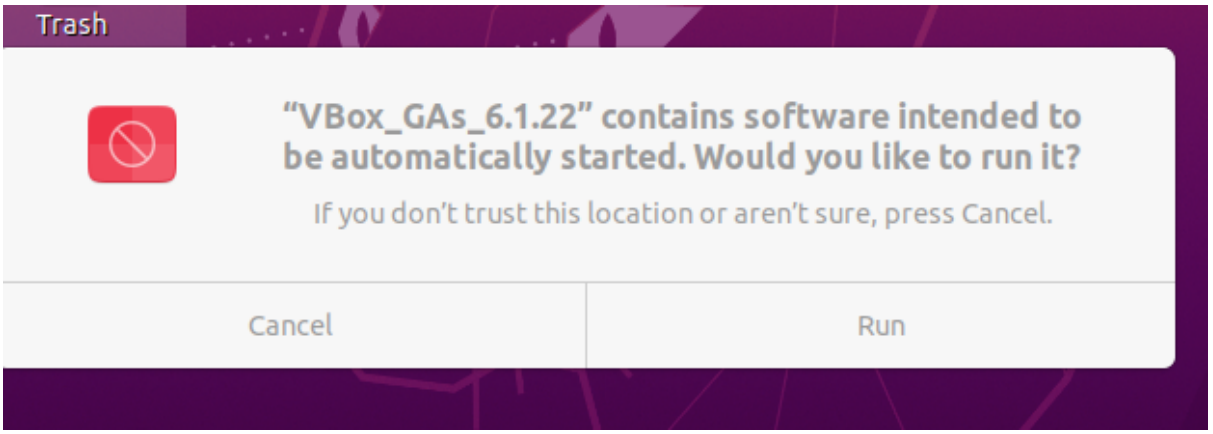
THEN I TRY TO CHANGE THE DOCUMENT /etc/grub.d/30_os-prober I COMMENT THE LINE adjust_timeout AND UPDATE GRUB, IT DID WORK



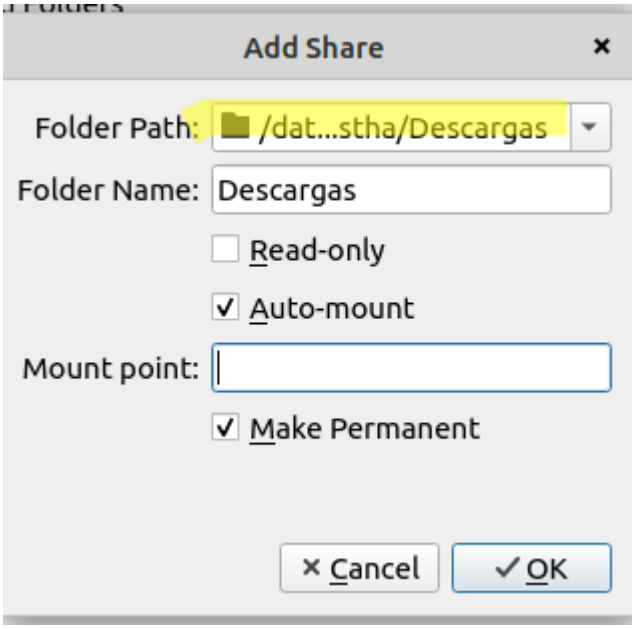
HERE WE CAN SEE IT WORK

- **A shared folder to an external storage device that you can access from both Operating systems.**

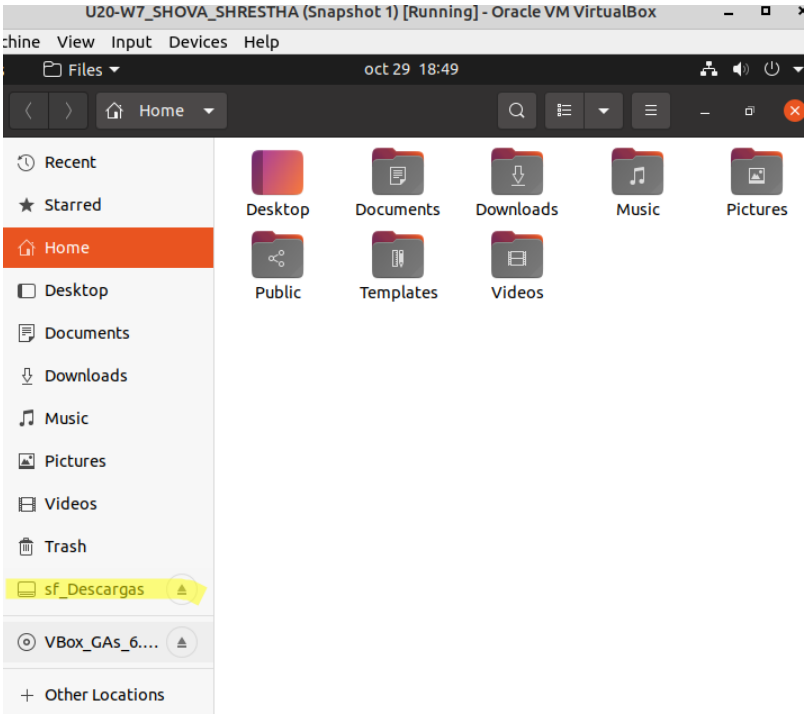
  WE NEED TO INSTALL GUEST ADDITION WE ALREADY DID IN WINDOWS SO KNOW WE INSTALL IN UBUNTO20, WE CLICK RUN AND THEN WILL INSTALL.



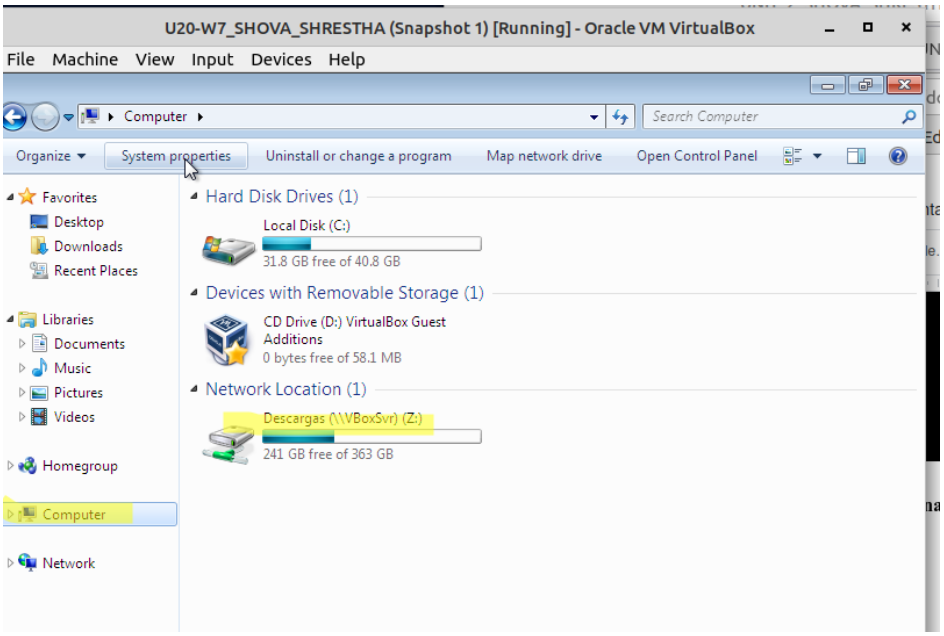
HERE WE WILL GO IN SETTINGS AND SHARE FOLDER WE CLICK IN FOLDER PATH WE CHOOSE ONE, IN MY CASE I CHOOSE THE FOLDER DOWNLOAD

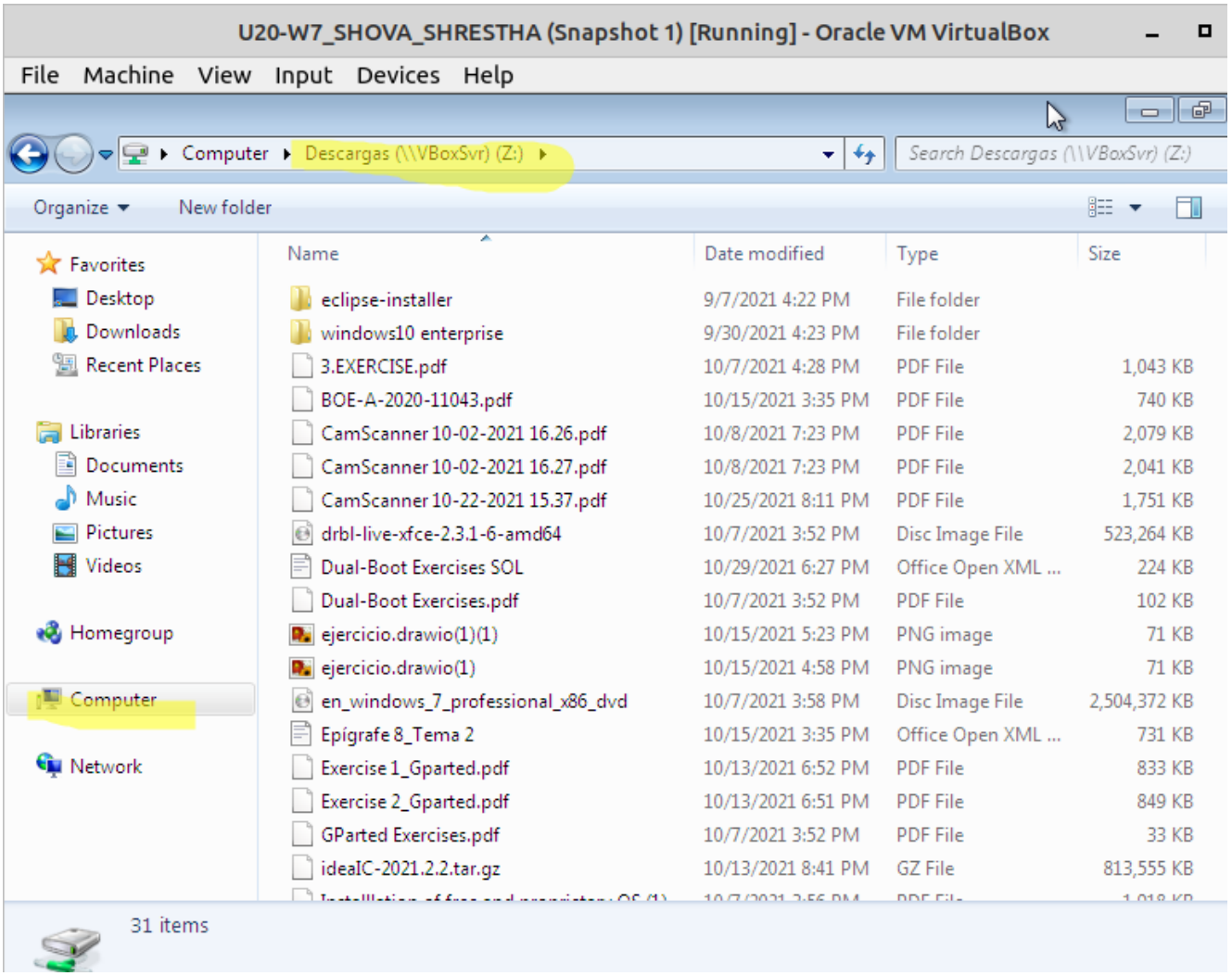


HERE IN UBUNTU WE CAN SEE IT WORK



AND ALSO IN WINDOWS




U20-W7_SHOVA_SHRESTHA (Snapshot 1) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Computer ▸ Descargas (\\VBoxSvr) (Z:) ▸
Search Descargas (\\VBoxSvr) (Z:)
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Homegroup
Computer
Network
Name
Date modified
Type
Size
eclipse-installer 9/7/2021 4:22 PM File folder
windows10 enterprise 9/30/2021 4:23 PM File folder
3.EXERCISE.pdf 10/7/2021 4:28 PM PDF File 1,043 KB
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31 items

- **Internet connection.**

I CHOOSE BRIDGED ADAPTER SO WE CAN HAVE INTERNET FROM OUR COMPUTER IT COULD BE ALSO NAT NETWORK.