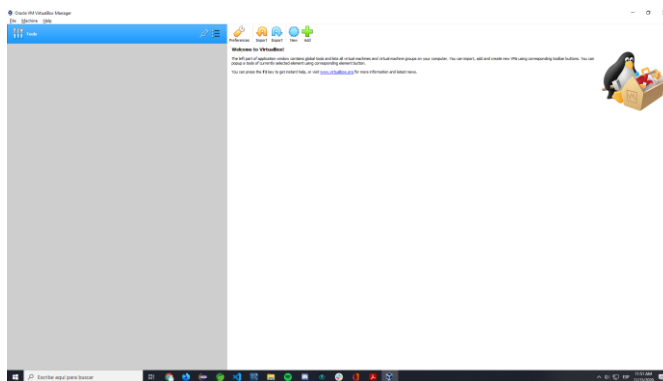


EXERCISES 1 : Luis Monzón

1. Create an empty virtual machine and configure the following settings:
 - For Windows 10 (64 bits, or 32 if you do not have enough RAM in your physical computer).
 - 2GB of RAM memory.
 - Boot order (CD and hard drive).
 - Two hard drives: one with 50 GB for the operating system and another one with 30 GB empty. Select the type of disk that can dynamically increase.

New empty VM:



Oracle VirtualBox

Create VM for Windows10 with the requiere configuration:

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← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Machine Folder:

Type:

Version:

Expert Mode

2GB of Ram:

← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **2048 MB**.



Next

Cancel

Create the disk that the VM will use: 50GB

← Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **50.00 GB**.

- ☐ Do not add a virtual hard disk
- ☒ Create a virtual hard disk now
- ☐ Use an existing virtual hard disk file

Empty

Create

Cancel

Configure the disk to be Dynamically allocated:

Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

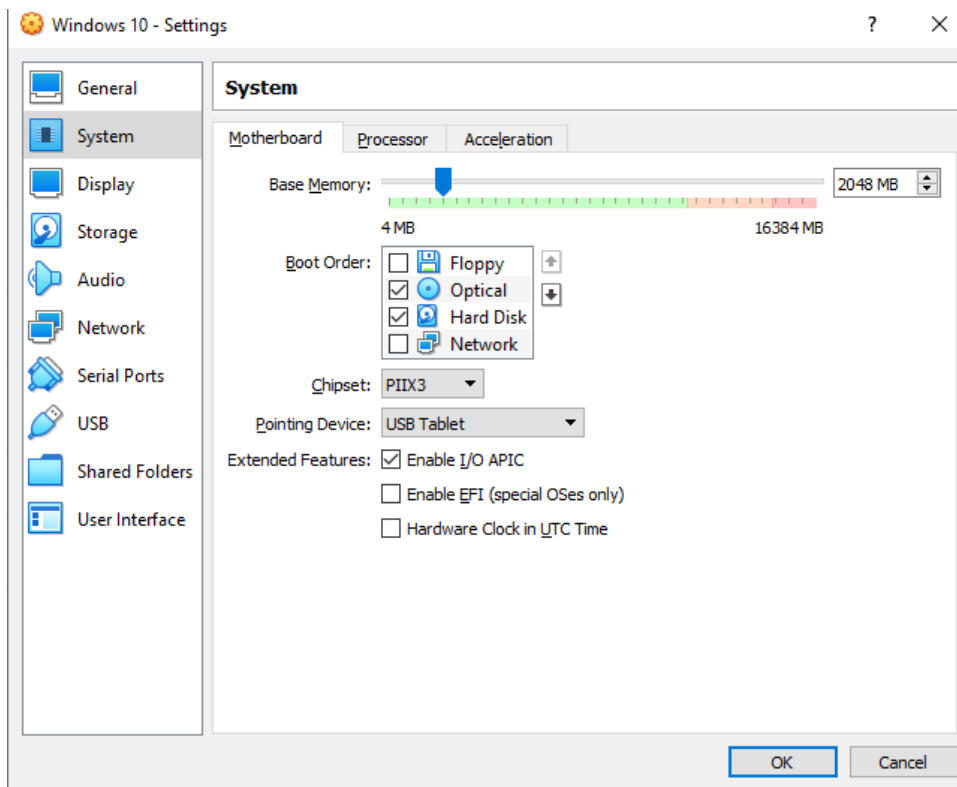
A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

- ☒ Dynamically allocated
☐ Fixed size

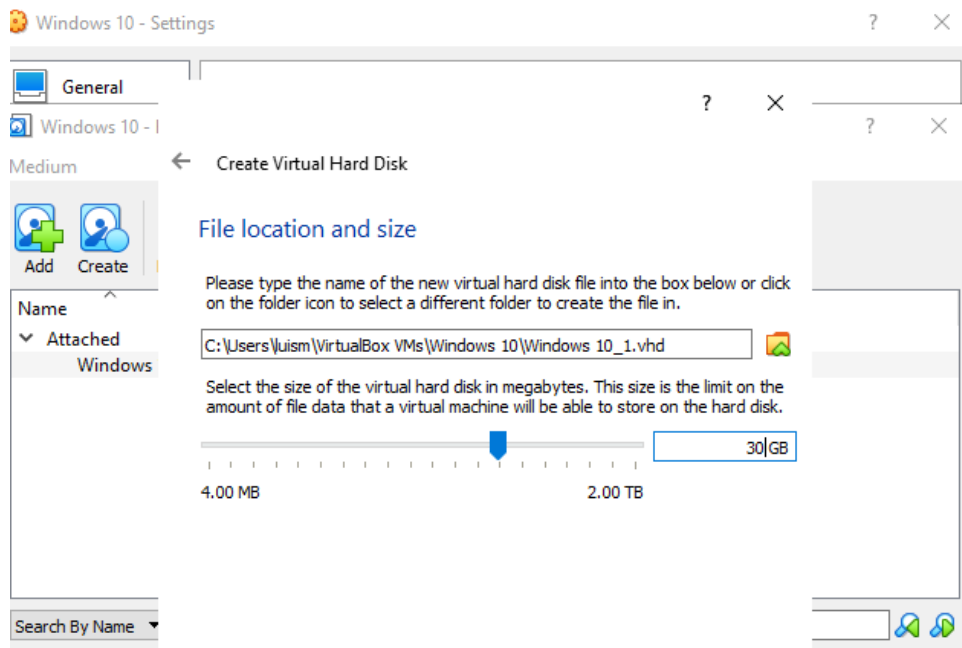
Next

Cancel

Change boot order:

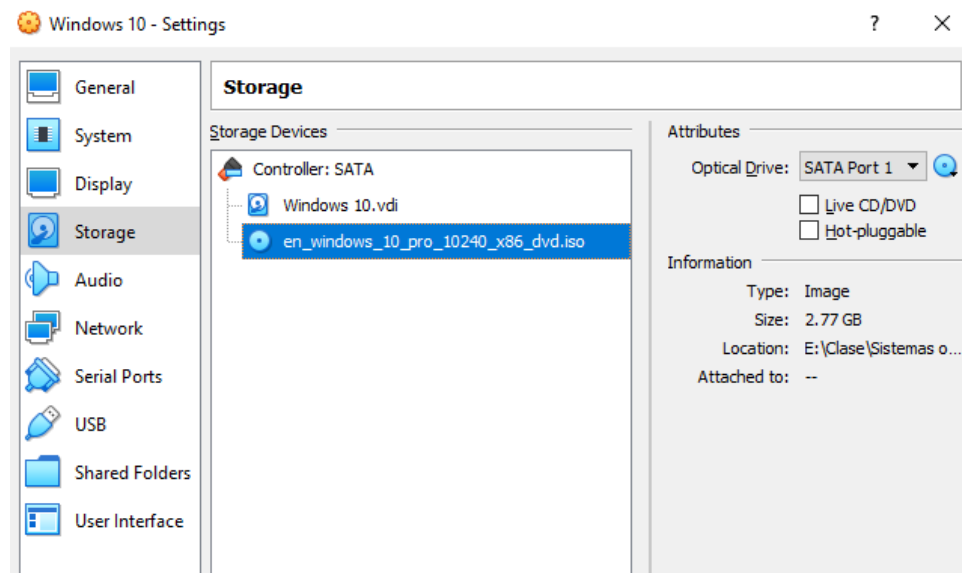


Create second Hard disk for the VM: 30GB

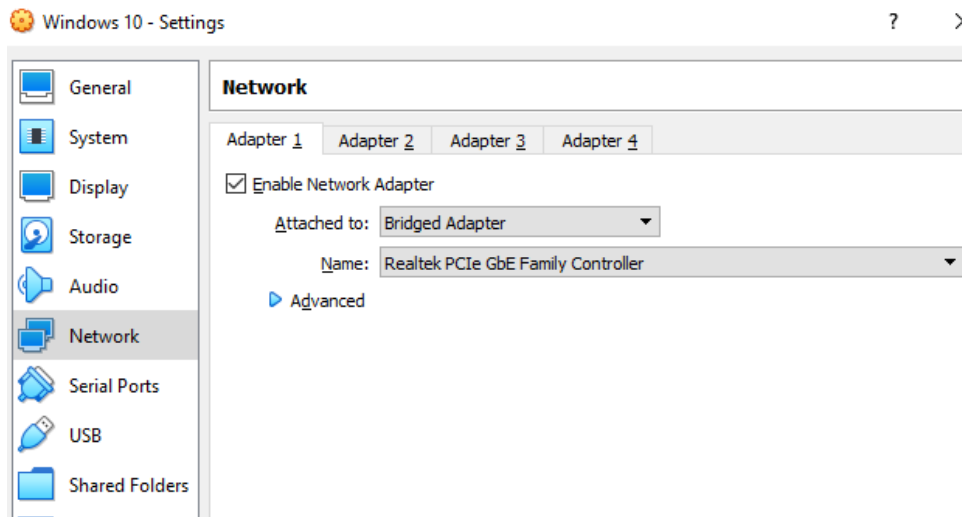


2. Install Windows 10 in the virtual machine from exercise 1. You must add the following settings:
 - USB 3.0 support.
 - Shared folders.
 - Internet connection including access to the rest of computers of the network.
 - You will be able to copy and paste from the host to the guest and vice versa.

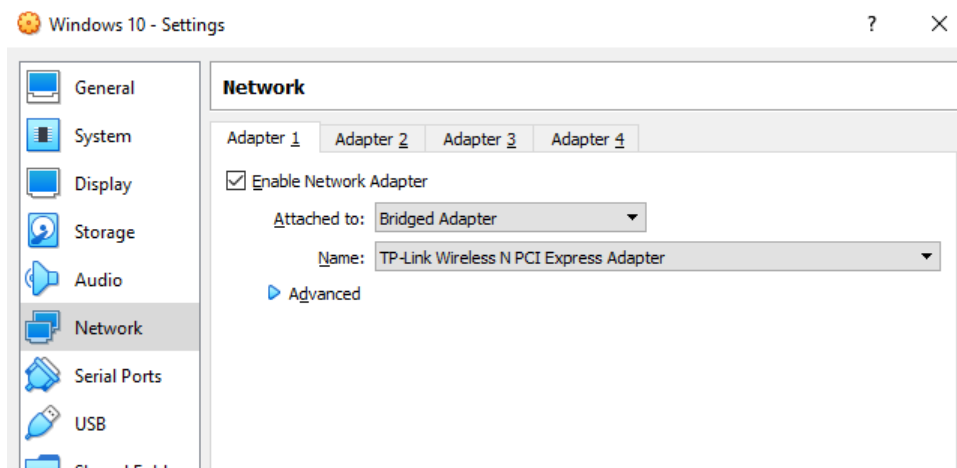
Add the ISO file for the Windows 10 instalation:



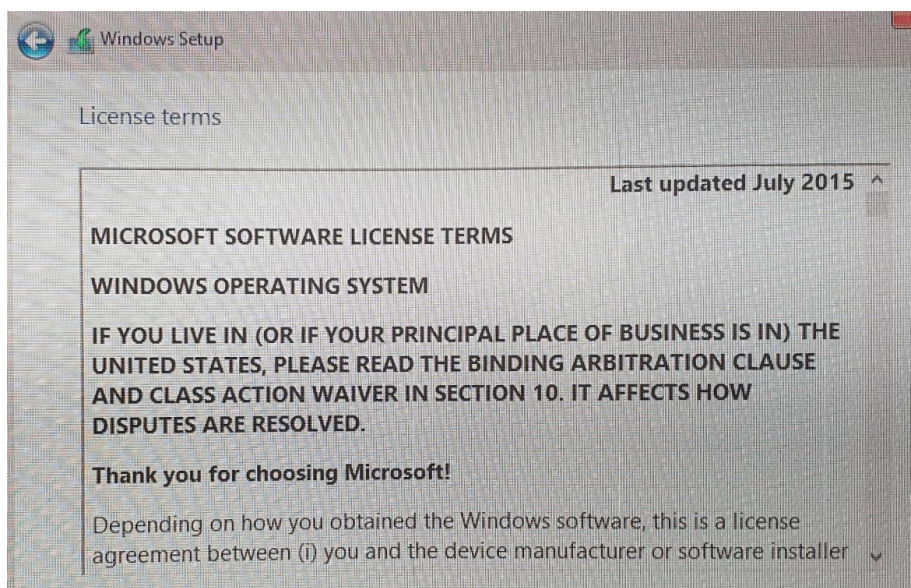
The network setting:

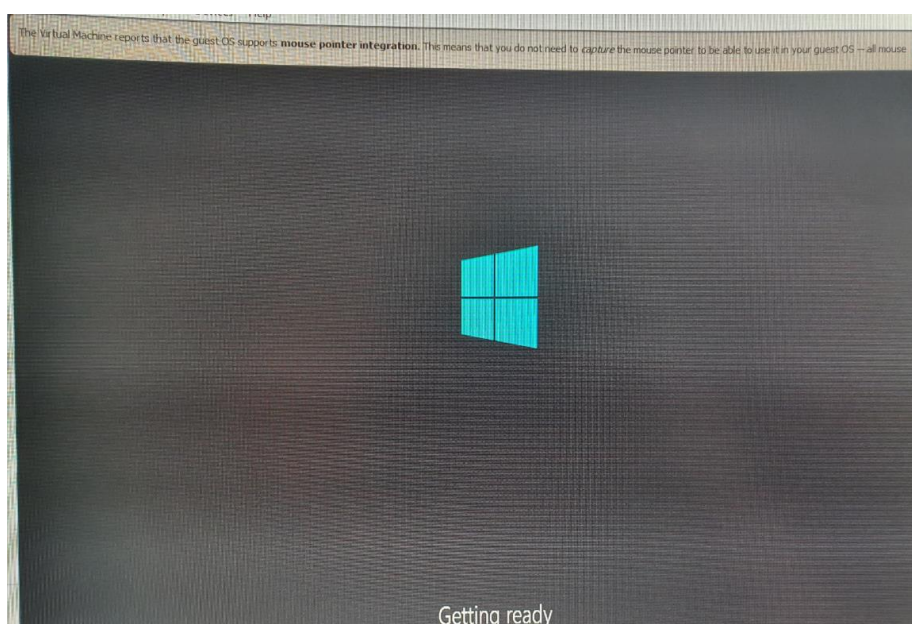
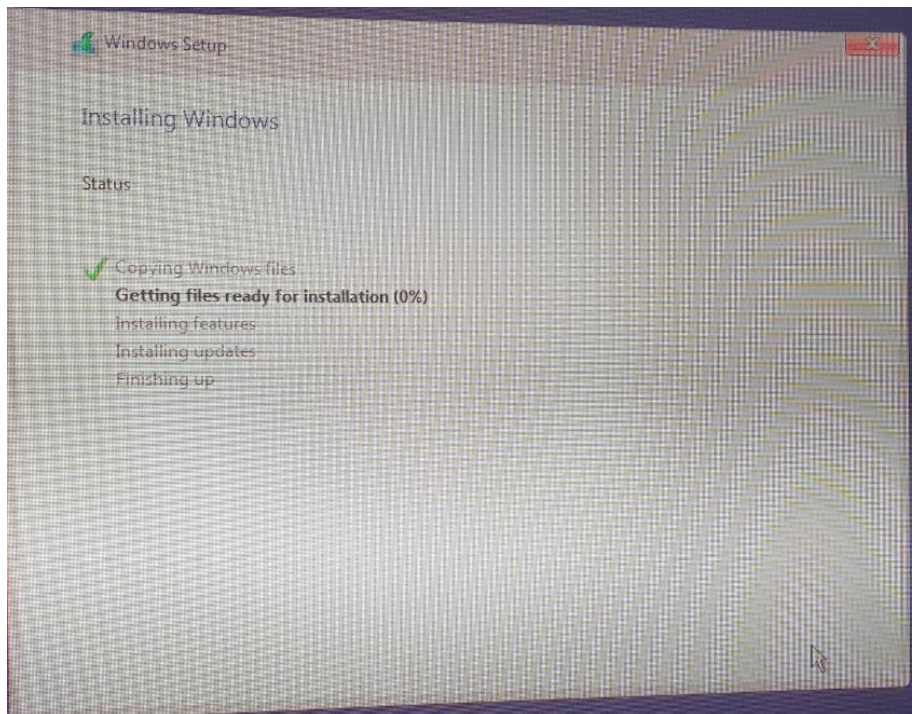


The network settings for Wifi:

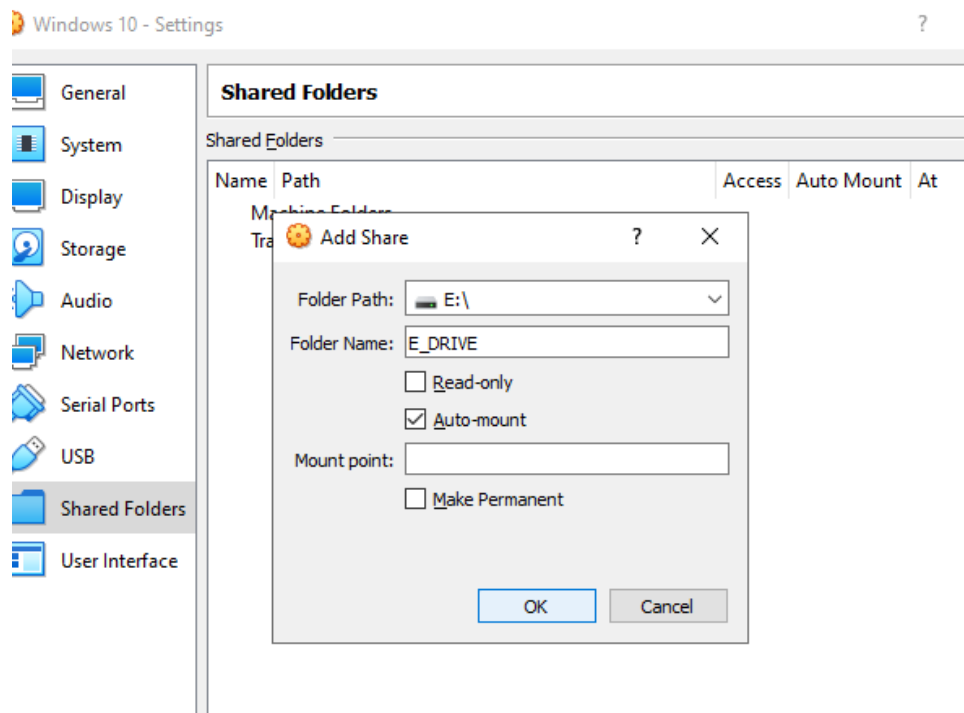
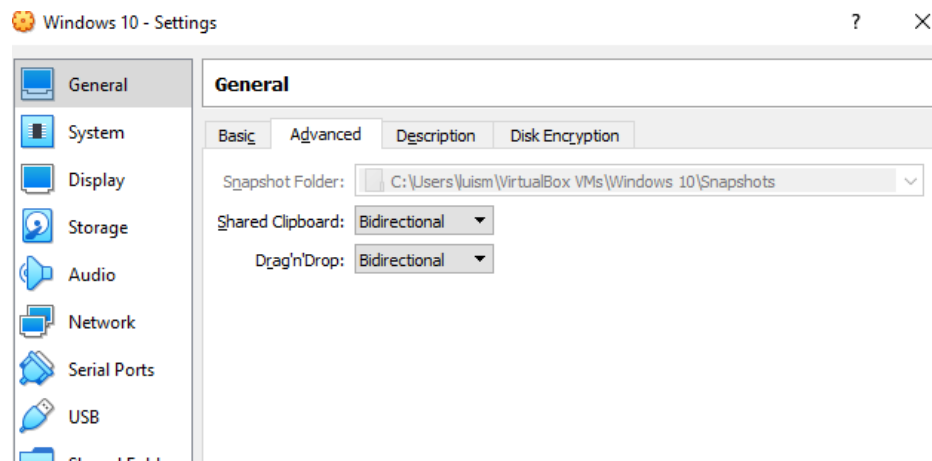


FOTOS INSTALACION WINDOWS 10:

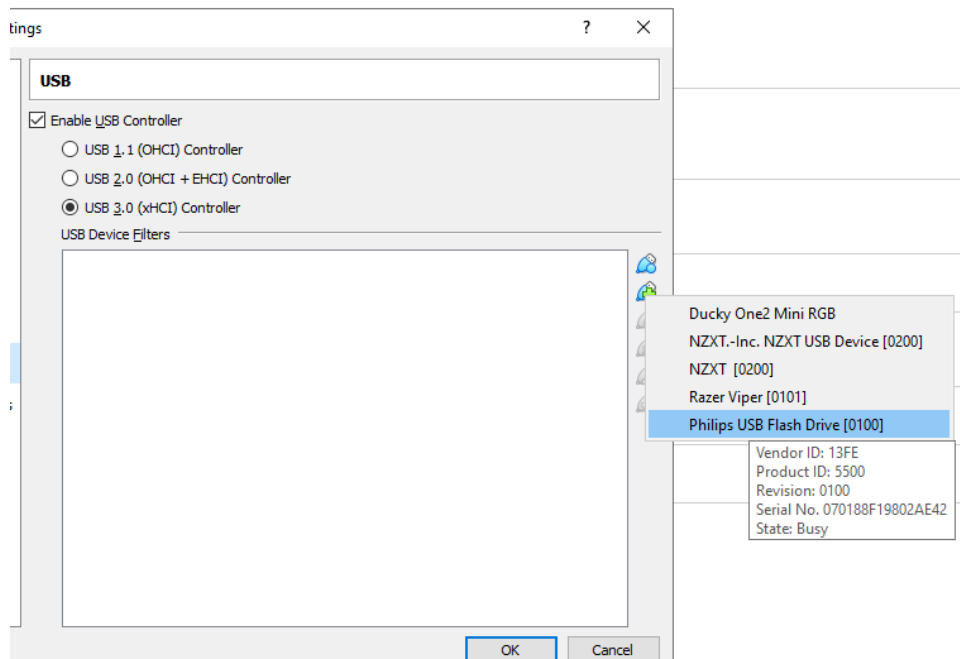
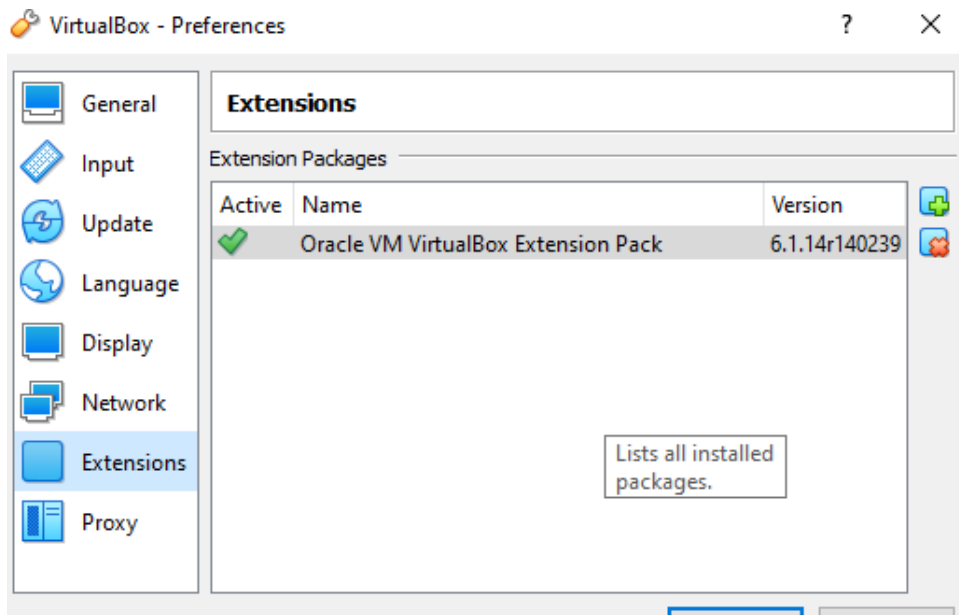




Another settings:



For the USB 3.0 you need to install the following extension:



3. Create another 64-bits virtual machine and install Ubuntu 16.04. The virtual machine must meet the following requirements:
 - 2 GB of RAM memory.
 - Just one disk of 30 GB.
 - A shared folder to an external disk.
 - Internet connection.
 - You will be able to copy and paste from the host to the guest and vice versa.

Creating the new VM for Ubuntu:

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← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Ubuntu 16

Machine Folder:

C:\Users\luism\VirtualBox VMs

Type:

Linux

64

Version:

Ubuntu (64-bit)

Expert Mode

Next

Cancel

2GB or RAM:

Ubuntu 16 - Settings

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General

System

Display

Storage

Audio

Network

Serial Ports

USB

Shared Folders

User Interface

System

Motherboard

Processor

Acceleration

Base Memory: 2048 MB

4 MB 16384 MB

Boot Order:

Floppy

Optical

Hard Disk

Network

Chipset: PIIX3

Pointing Device: USB Tablet

Extended Features:

Enable I/O APIC

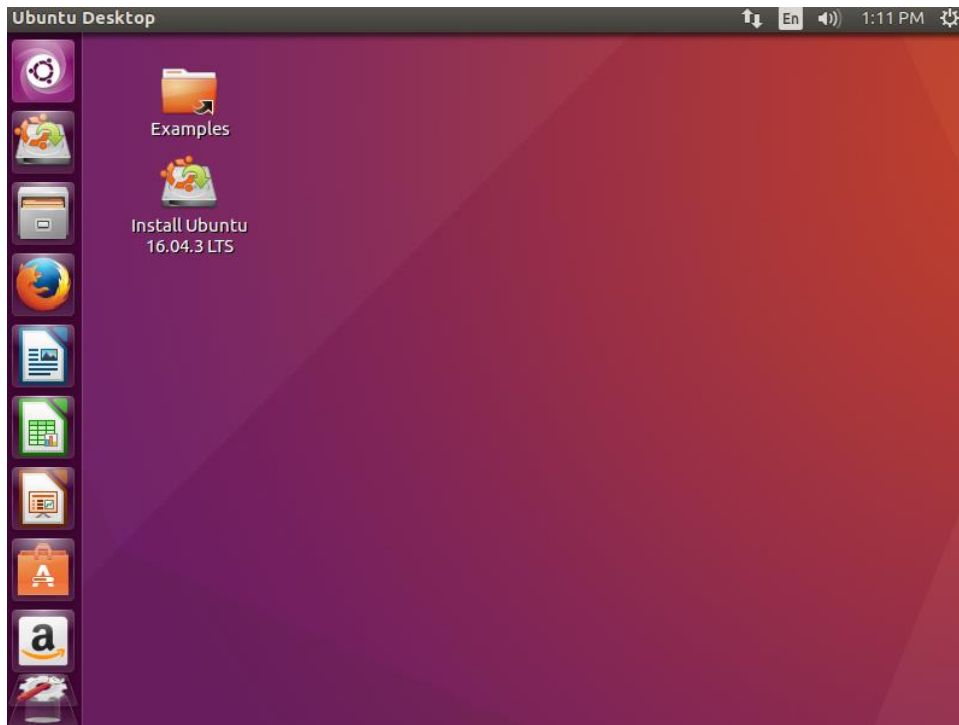
Enable EFI (special OSes only)

Hardware Clock in UTC Time

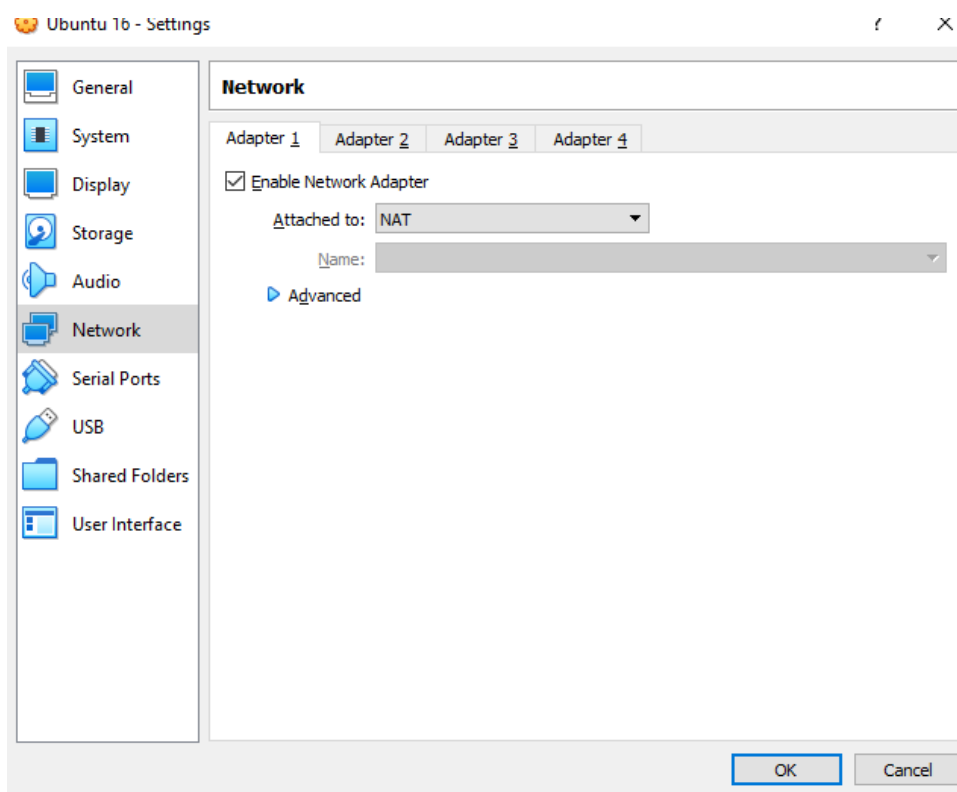
OK

Cancel

And the result after following the steps for the 1 exercise for Linux:



The default setting for the network connection:



4. Create the snapshots like in the picture below using one of the virtual machines created in the previous exercises. Before each snapshot, you must change something in the operating system. This tool is normally used when performing a critical action or installing software. But, in this case, you can do something so easy as creating a new file to study the different states.

