EXERCISES ABOUT OS INSTALLATIONS:

INDEX

1.-

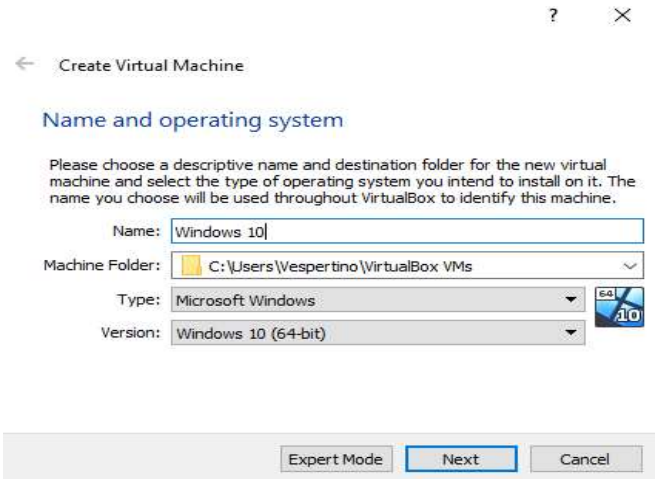
First of all, it is necessary to install Windows 10 in our computer (64 bits, or 32 if you do not have enough RAM memory in your physical computer) inside the virtual machine choosing an empty virtual machine and after that, configure some settings:

1.- At the top of the screen there are two menus and you can choose between to options to create a new virtual machine from the left side of the screen: **a) Menu-> click "Machine -> New"** or from the right side of the screen: **b) click "New icon"** :

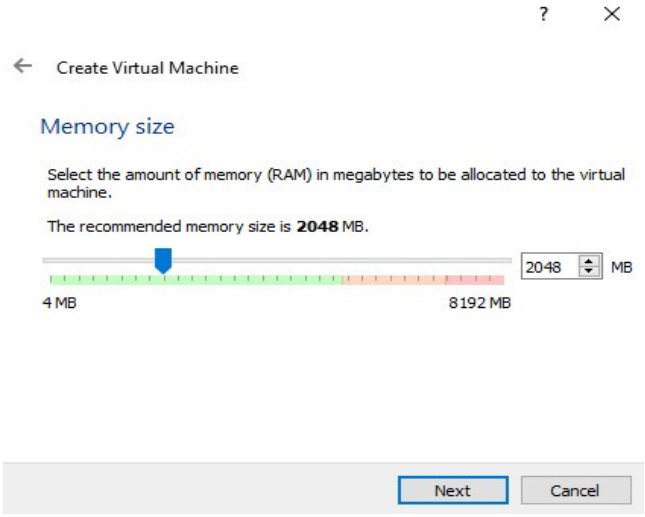
a)

b)

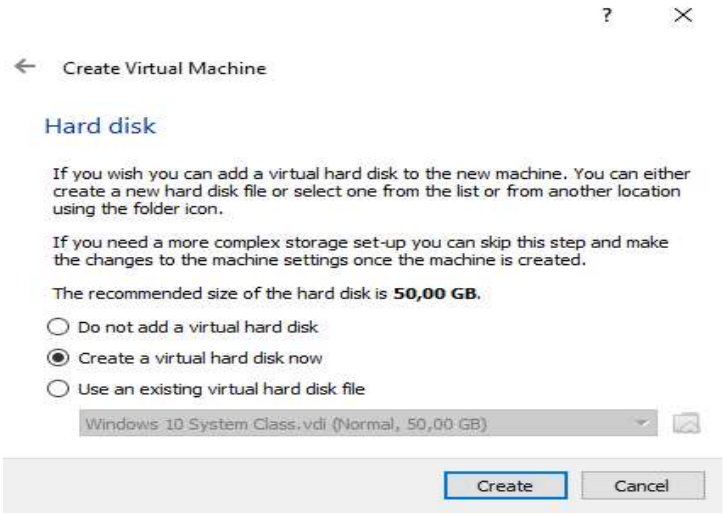
Then you select the Operating System (OS) following these steps: write the Name, choose the Machine Folder (in this example we show the default folder), OS Type and the corresponding SO Version clicking on the arrow inside each label. Then click "Next" button:



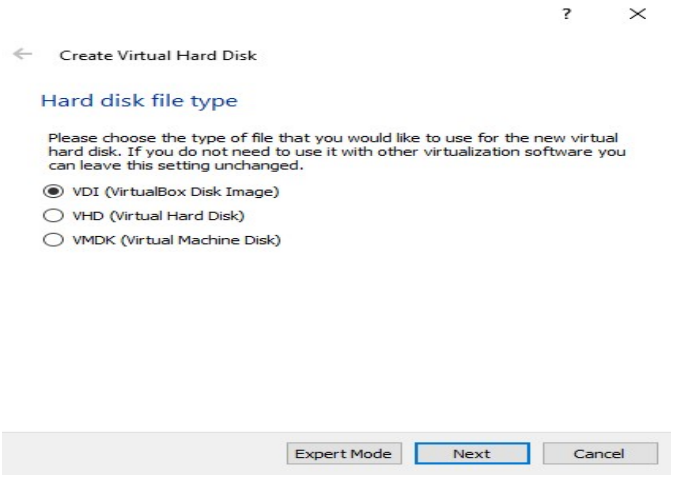
2.- This screen shows the RAM memory size that it can be chosen. By default, we see the recommended memory size and that is the one we need. Then **click "Next"** button:

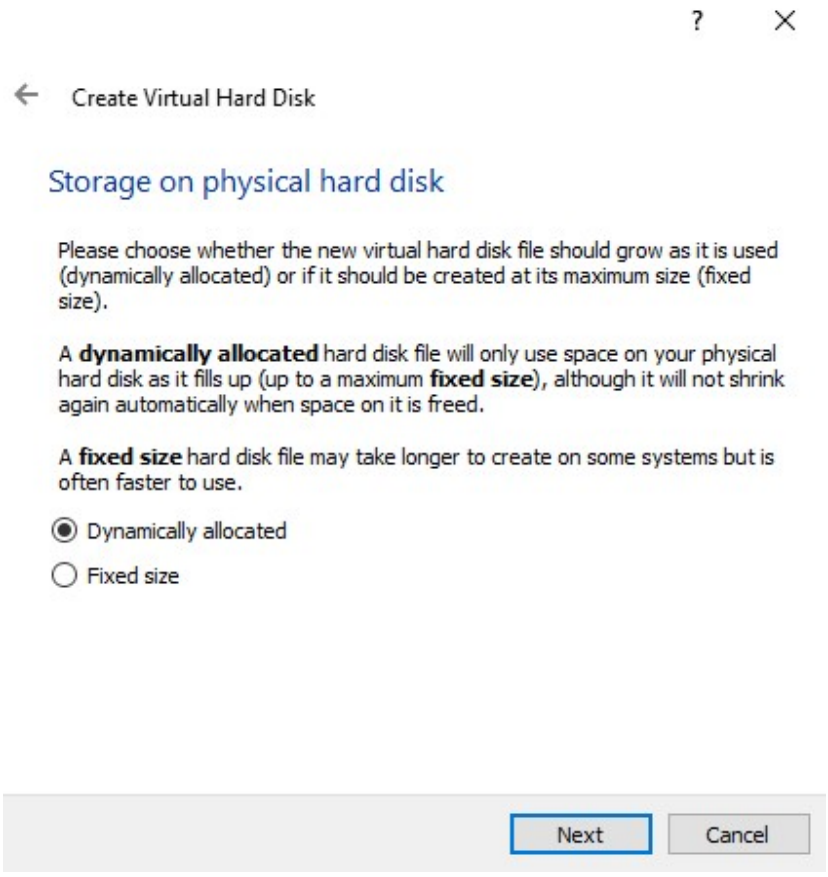


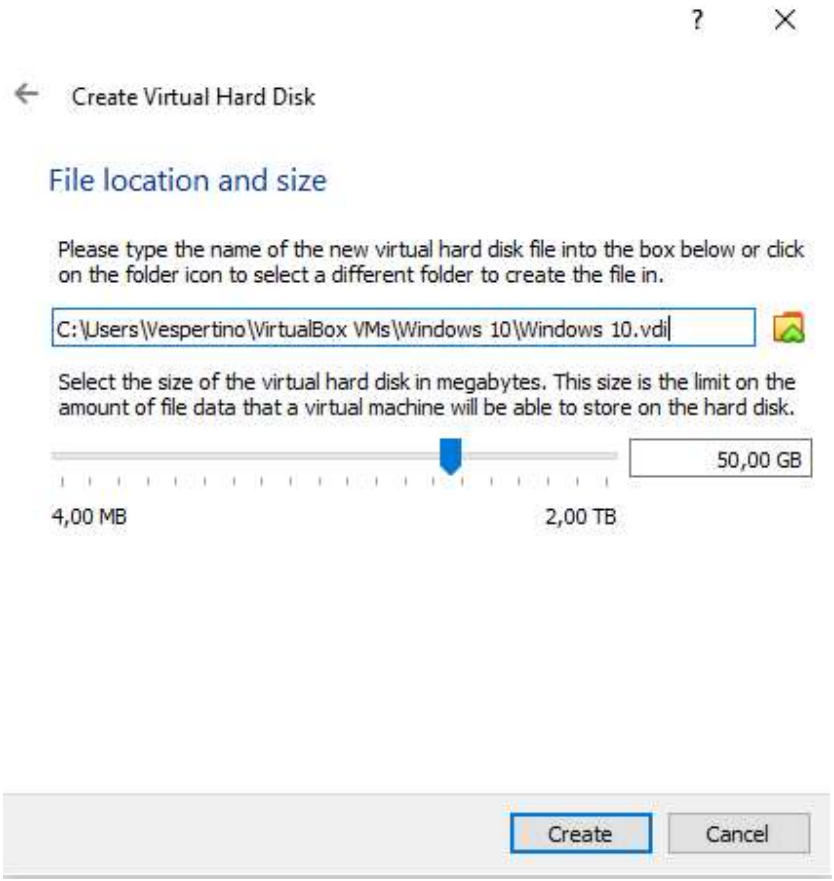
Next step is to create a virtual hard disk because we do not have any. We want to choose 50,00 GB that is the recommended size of the hard disk. Then **click "Create"** button:



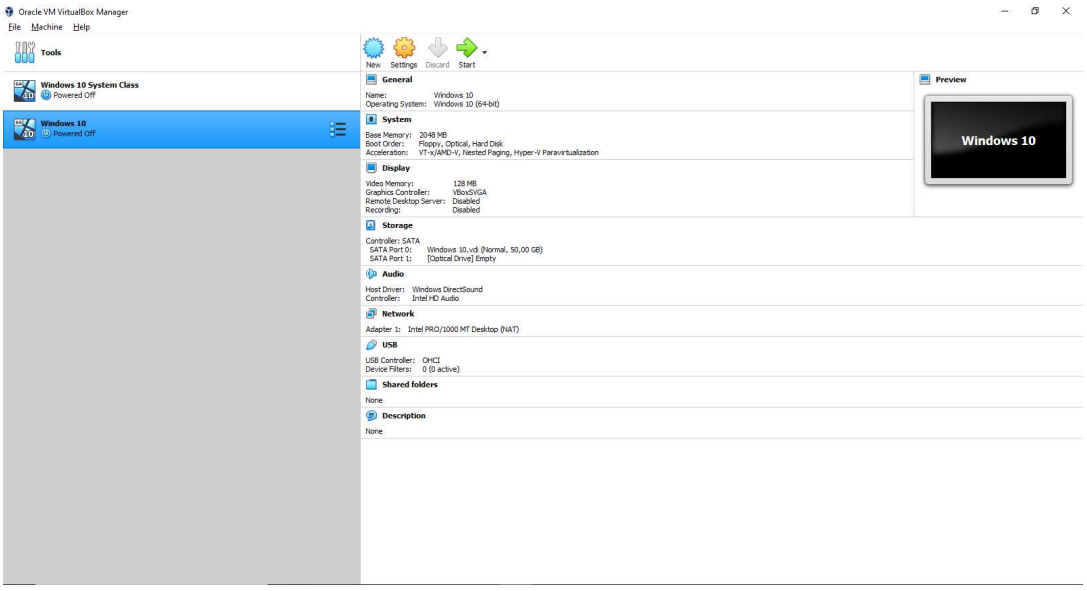
After that, we need to create an **image of the virtual hard disk** virtual machine (VDI). Then **click "Next"** button:

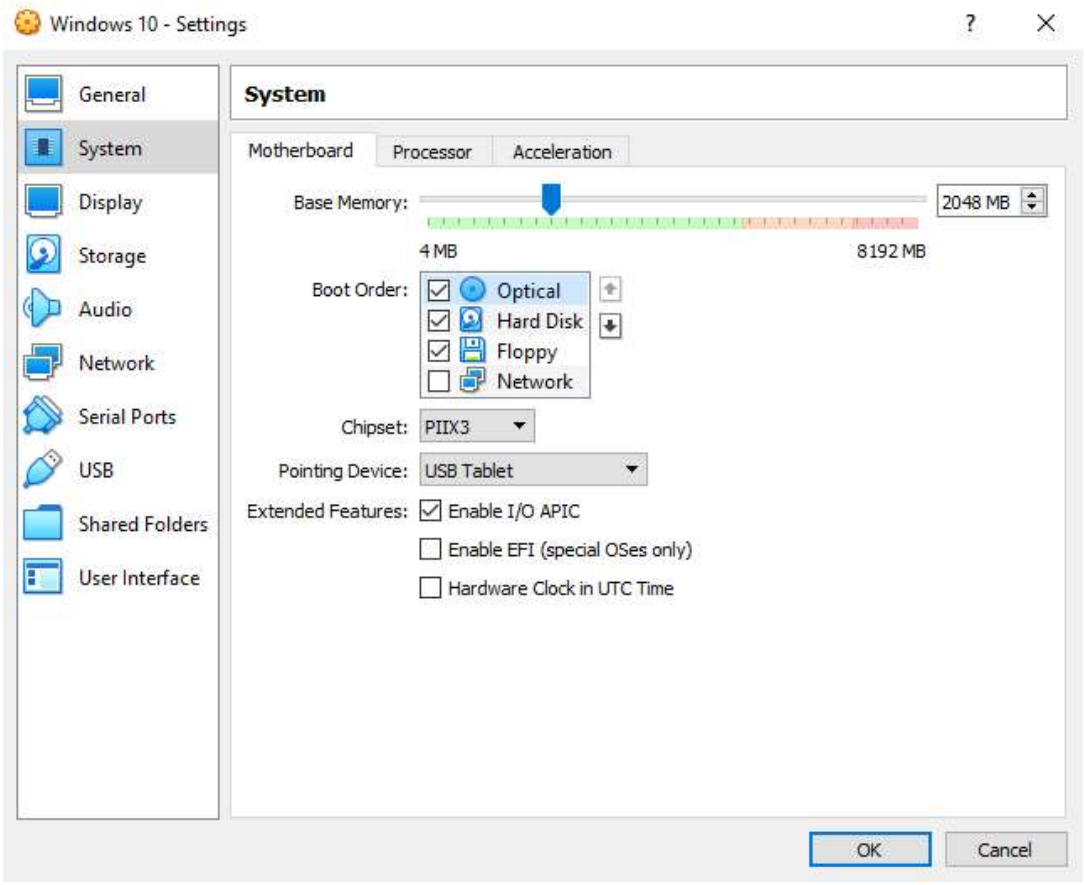

Create Virtual Hard Disk
Hard disk file type
Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.
VDI (VirtualBox Disk Image)
VHD (Virtual Hard Disk)
VMDK (Virtual Machine Disk)
Expert Mode
Next
Cancel

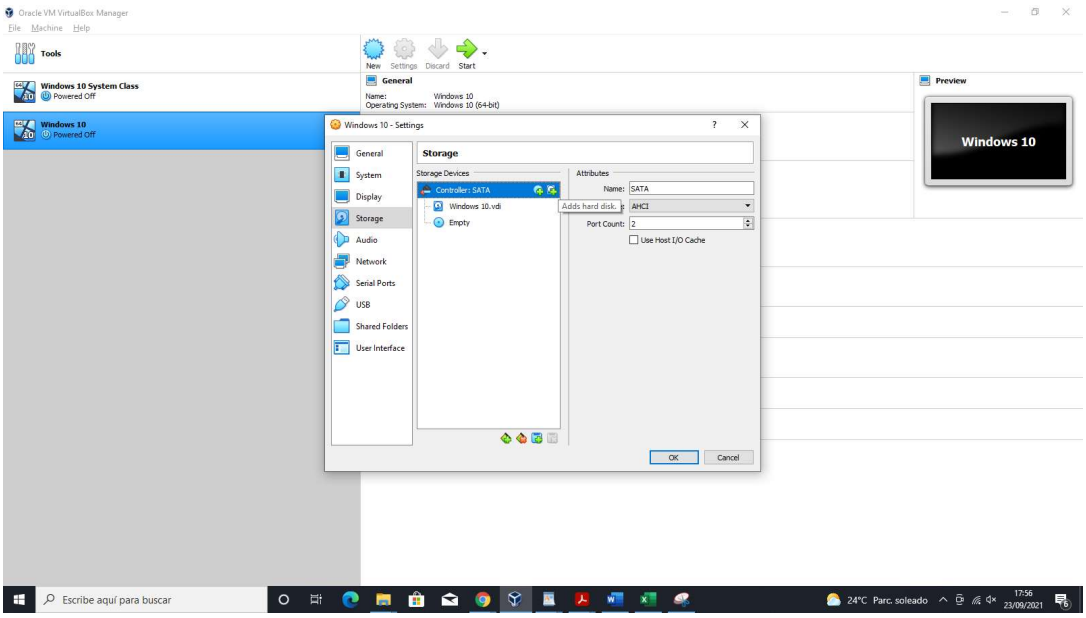

Create Virtual Hard Disk
Storage on physical hard disk
Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).
A dynamically allocated hard disk file will only use space on your physical hard disk 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

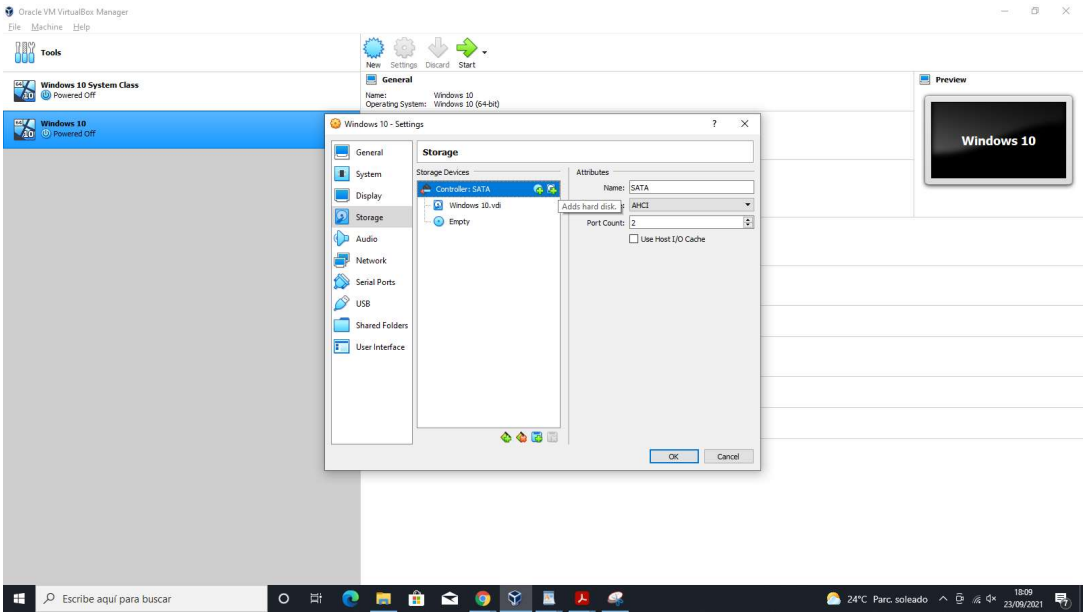


once we created the virtual machines




Windows 10 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
System
Motherboard
Processor
Acceleration
Base Memory:
2048 MB
4 MB
8192 MB
Boot Order:
Optical
Hard Disk
Floppy
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


Oracle VM VirtualBox Manager
File Machine Help
Tools
Windows 10 System Class
Powered Off
Windows 10
Powered Off
New Settings Discard Start
General
Name: Windows 10
Operating System: Windows 10 (64-bit)
Preview
Windows 10
Windows 10 - Settings
Storage
Storage Devices
Controller: SATA
Windows 10.vdi
Empty
Attributes
Name: SATA
Adds hard disk.
AHCI
Port Count: 2
Use Host I/O Cache
OK
Cancel
Escribe aquí para buscar
24°C Parc. soleado
17:56
23/09/2021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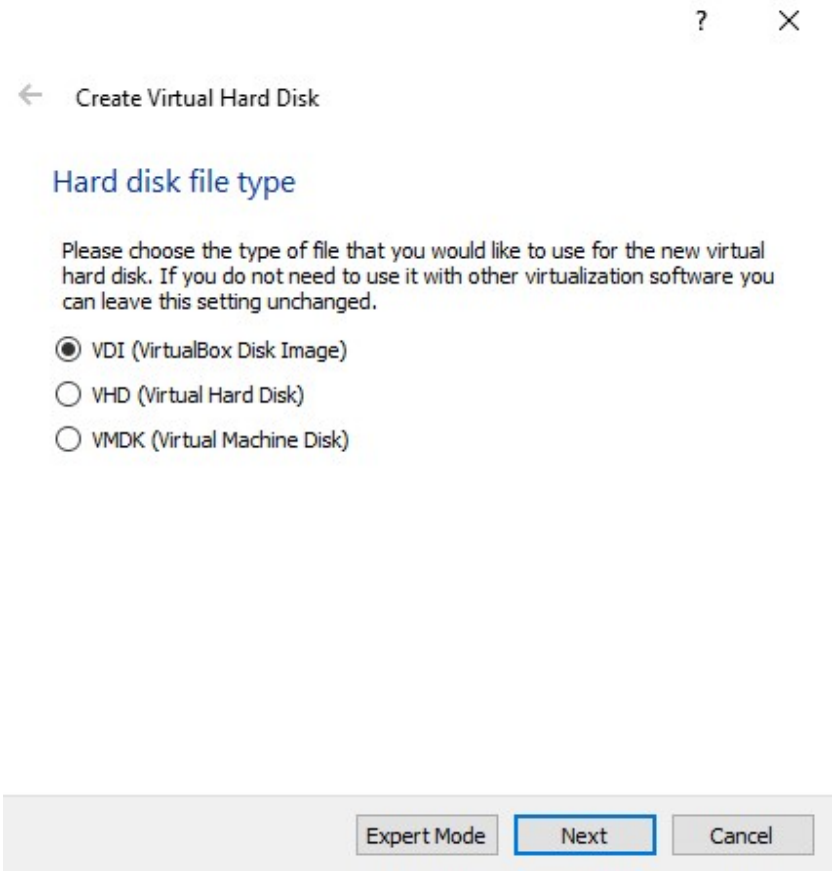
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
Storage
Storage Devices
Attributes
Controller: SATA
Windows 10.vdi
Empty
Adds hard disk.
Name: SATA
AHCI
Port Count: 2
Use Host I/O Cache
OK
Cancel
Escribe aquí para buscar
24°C Parc. soleado
18:09
23/09/2021


Create Virtual Hard Disk
Hard disk file type
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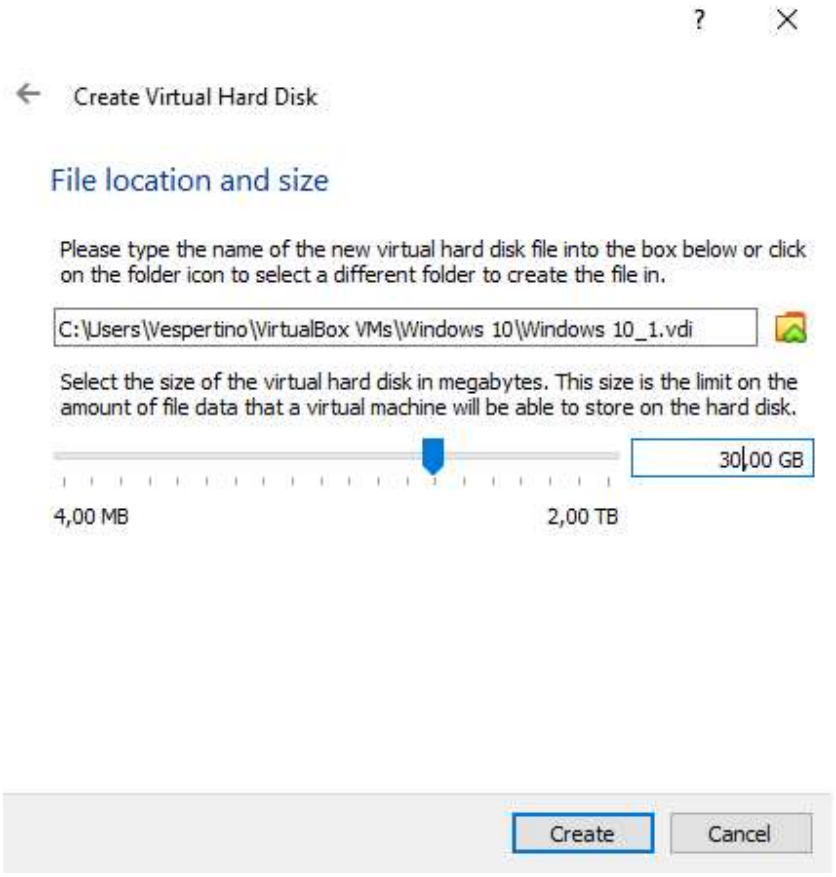
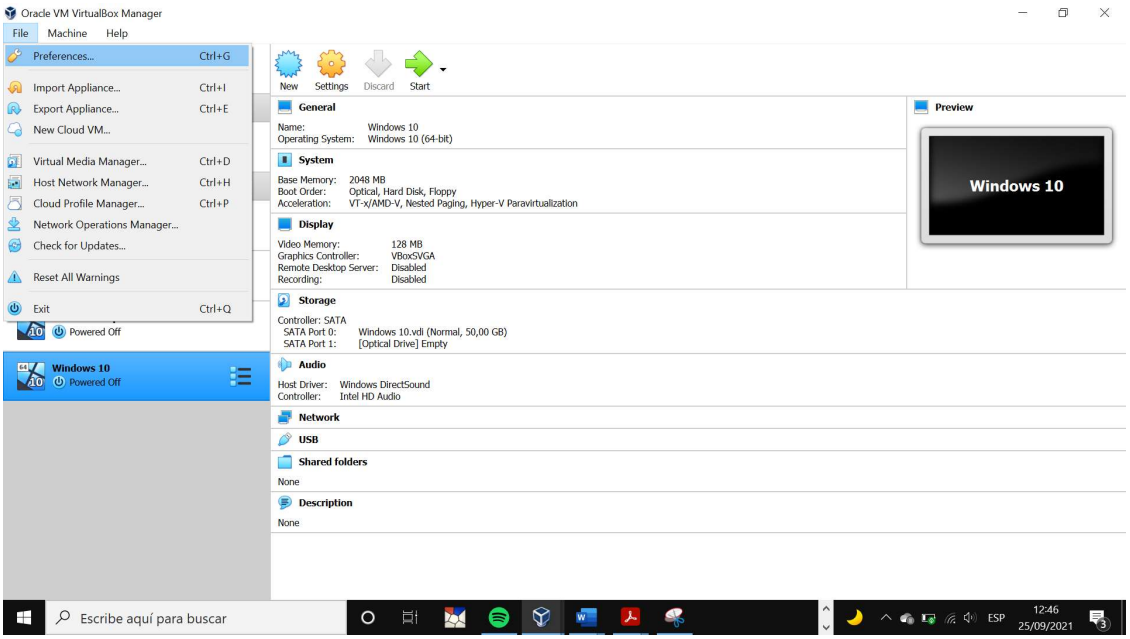
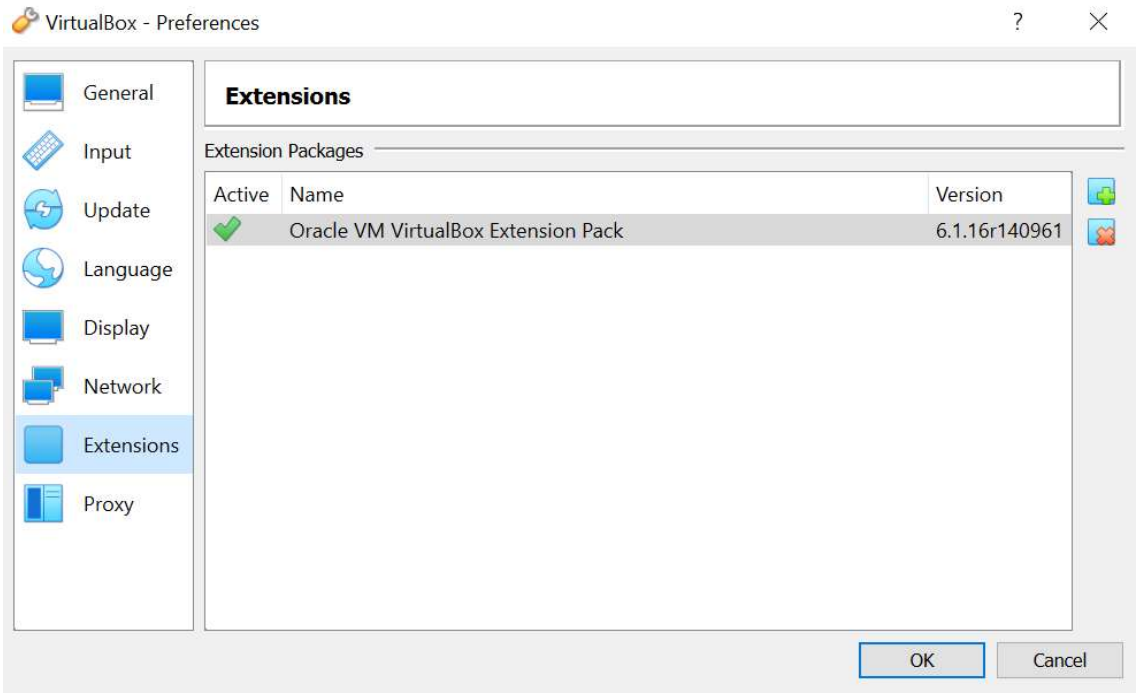
VDI (VirtualBox Disk Image)
VHD (Virtual Hard Disk)
VMDK (Virtual Machine Disk)
Expert Mode
Next
Cancel

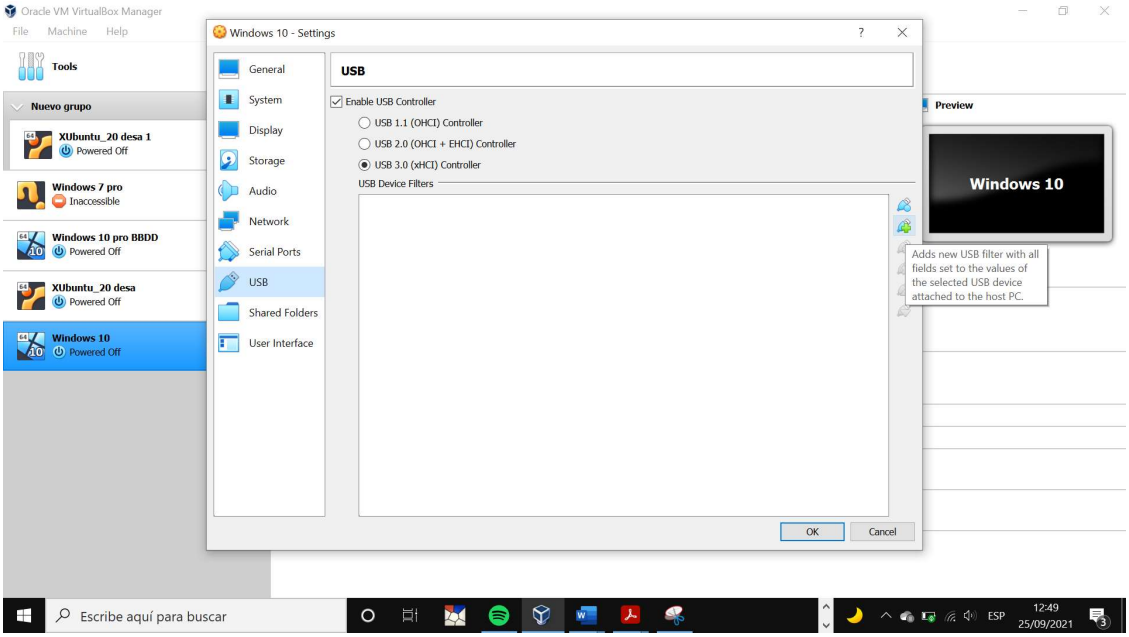

Create Virtual Hard Disk
File location and size
Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.
C:\Users\Vespertino\VirtualBox VMs\Windows 10\Windows 10_1.vdi
Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.
30,00 GB
4,00 MB
2,00 TB
Create
Cancel

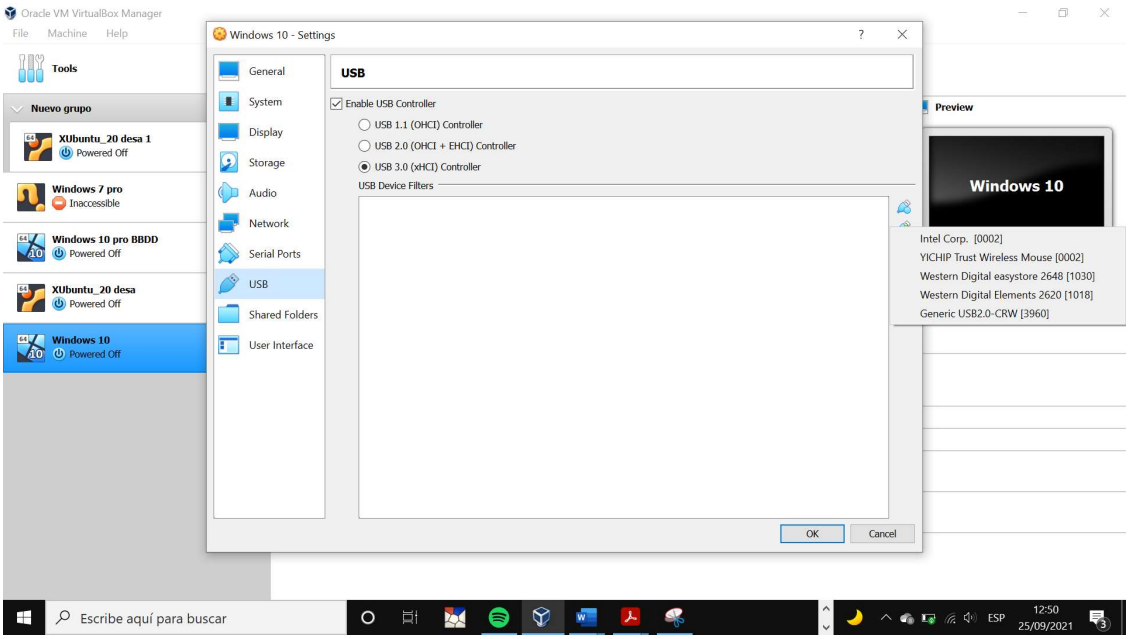
EXERCISE 2:

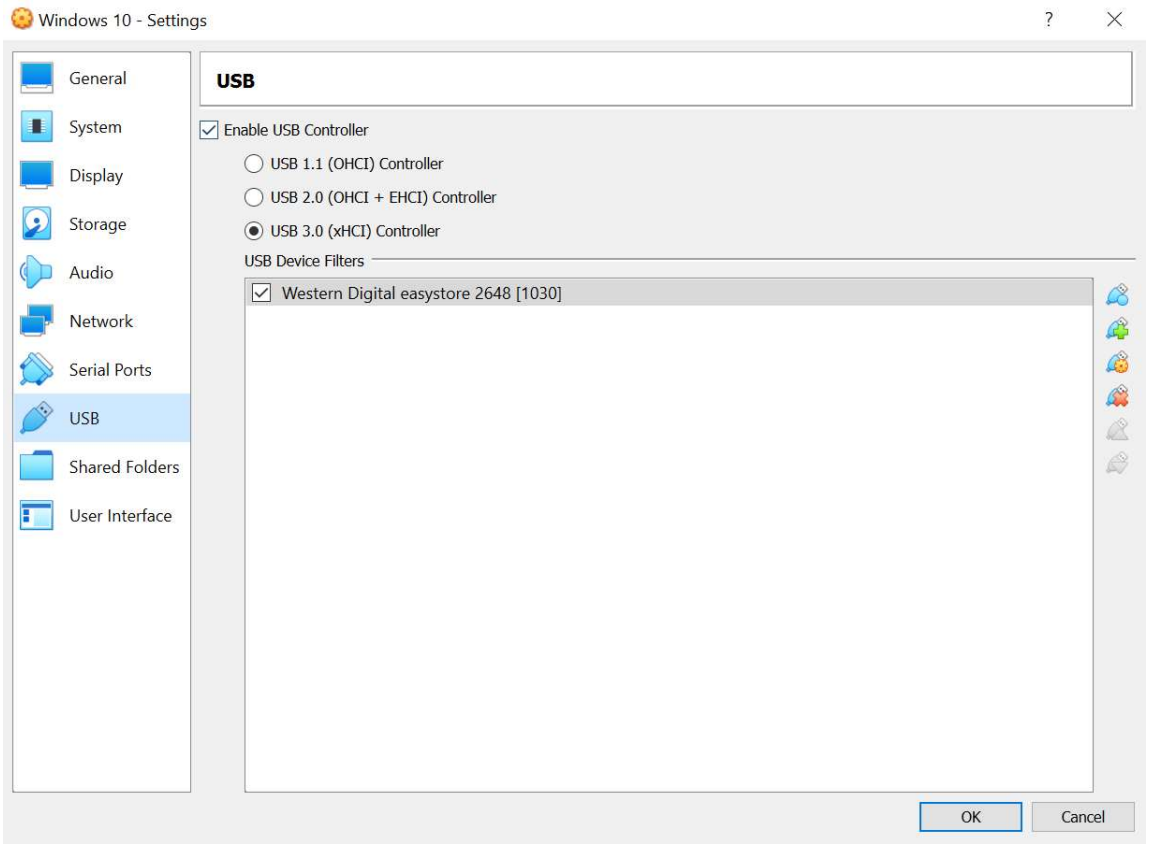
For the USB 3.0, you first need to install an extension from “File -> Preferences” in the VirtualBox main menu

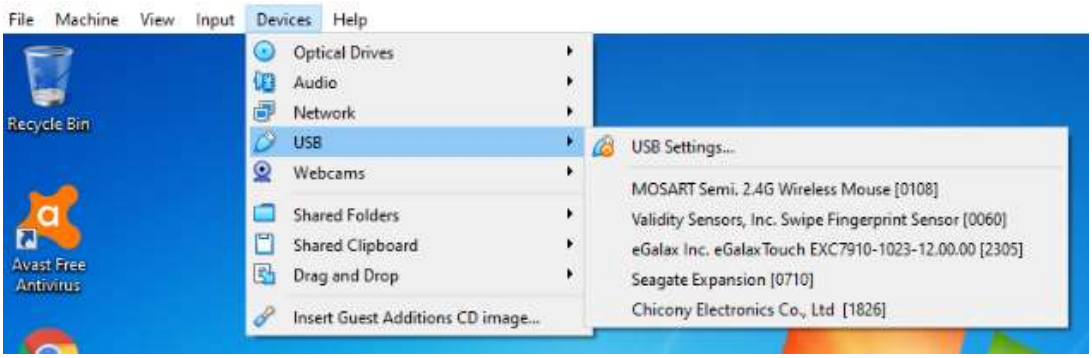


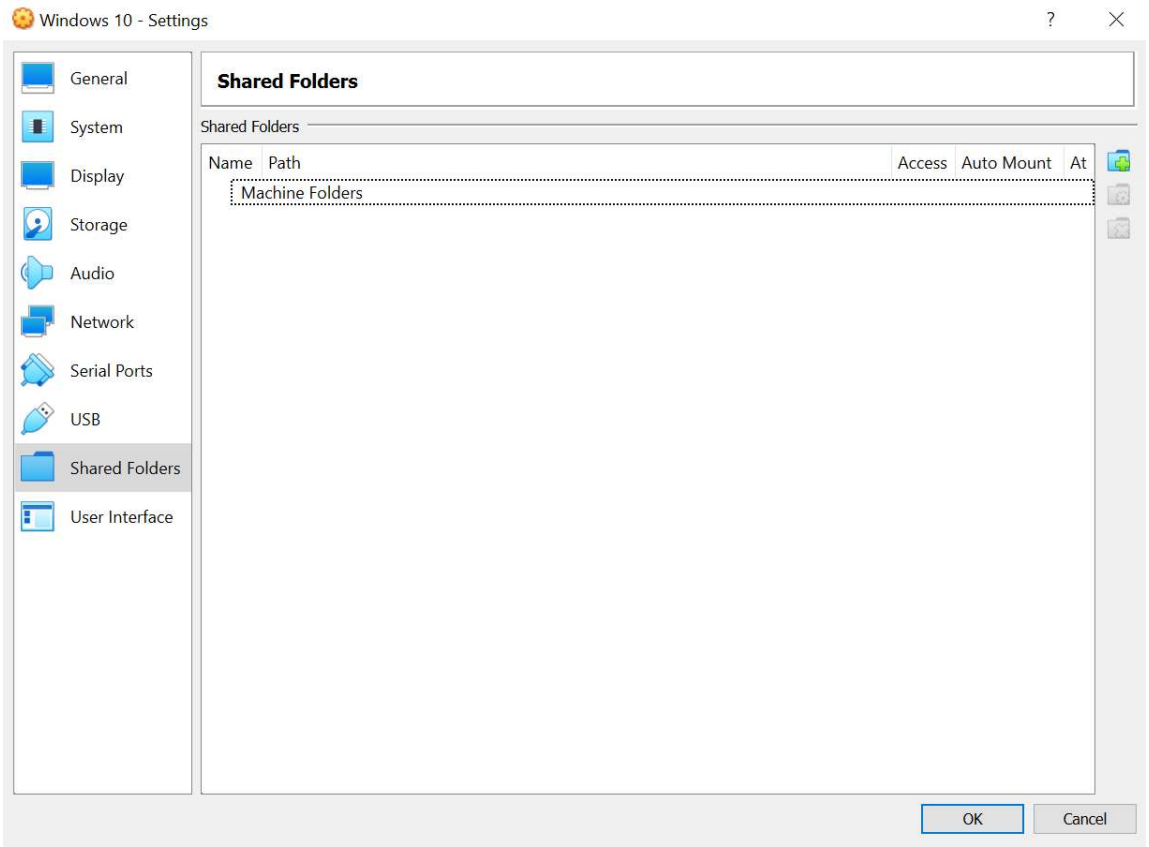

VirtualBox - Preferences
General
Input
Update
Language
Display
Network
Extensions
Proxy
Extensions
Extension Packages
Active
Name
Version
Oracle VM VirtualBox Extension Pack
6.1.16r140961
OK
Cancel


Oracle VM VirtualBox Manager
File
Machine
Help
Tools
Nuevo grupo
XUbuntu_20 desa 1
Powered Off
Windows 7 pro
Inaccessible
Windows 10 pro BBDD
Powered Off
XUbuntu_20 desa
Powered Off
Windows 10
Powered Off
Windows 10 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
USB
Enable USB Controller
USB 1.1 (OHCI) Controller
USB 2.0 (OHCI + EHCI) Controller
USB 3.0 (xHCI) Controller
USB Device Filters
Adds new USB filter with all fields set to the values of the selected USB device attached to the host PC.
OK
Cancel
Preview
Windows 10
Escribe aquí para buscar
ESP
12:49
25/09/2021

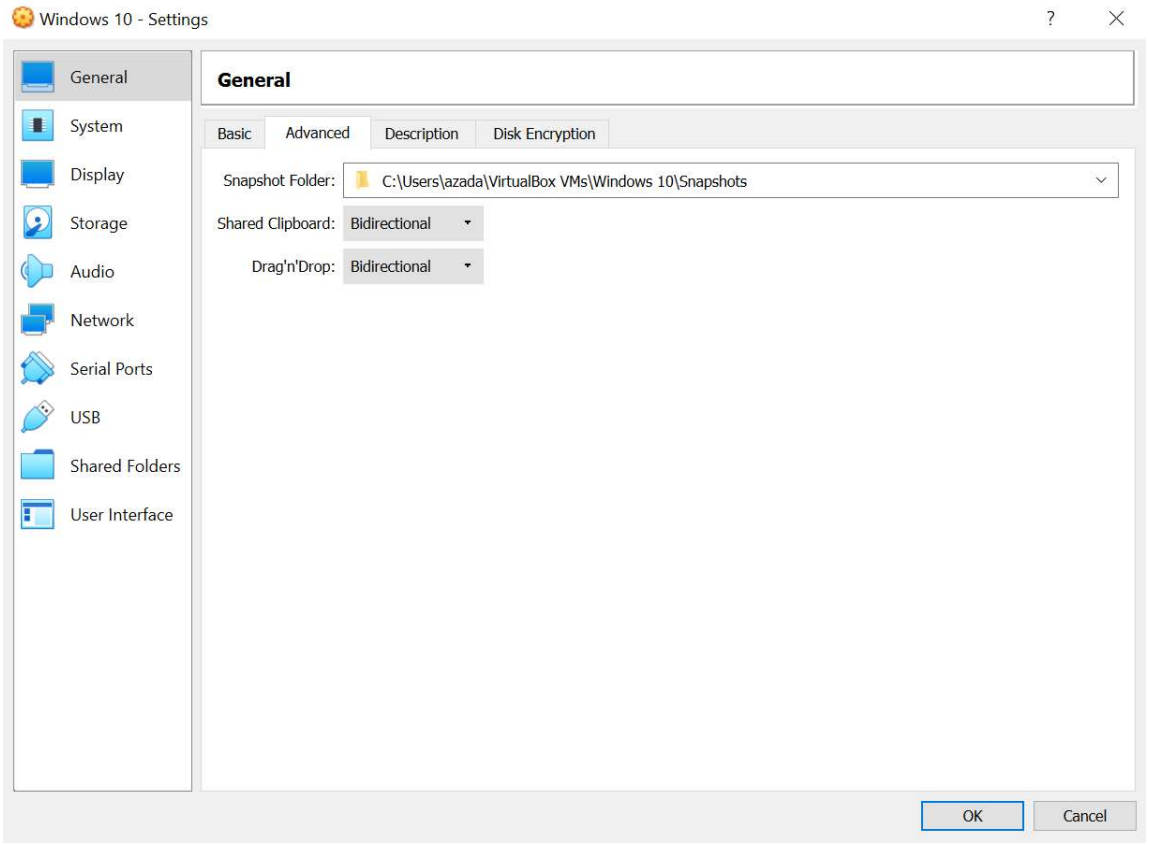

Oracle VM VirtualBox Manager
File
Machine
Help
Tools
Nuevo grupo
XUbuntu_20 desa 1
Powered Off
Windows 7 pro
Inaccessible
Windows 10 pro BBDD
Powered Off
XUbuntu_20 desa
Powered Off
Windows 10
Powered Off
Windows 10 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
USB
Enable USB Controller
USB 1.1 (OHCI) Controller
USB 2.0 (OHCI + EHCI) Controller
USB 3.0 (xHCI) Controller
USB Device Filters
OK
Cancel
Preview
Windows 10
Intel Corp. [0002]
YICHIP Trust Wireless Mouse [0002]
Western Digital easystore 2648 [1030]
Western Digital Elements 2620 [1018]
Generic USB2.0-CRW [3960]
Escribe aquí para buscar
ESP
12:50
25/09/2021


Windows 10 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
USB
Enable USB Controller
USB 1.1 (OHCI) Controller
USB 2.0 (OHCI + EHCI) Controller
USB 3.0 (xHCI) Controller
USB Device Filters
Western Digital easystore 2648 [1030]
OK
Cancel





For the clipboard bidirectional:


Windows 10 - Settings
General
System
Display
Storage
Audio
Network
Serial Ports
USB
Shared Folders
User Interface
General
Basic
Advanced
Description
Disk Encryption
Snapshot Folder:
C:\Users\azada\VirtualBox VMs\Windows 10\Snapshots
Shared Clipboard:
Bidirectional
Drag'n'Drop:
Bidirectional
OK
Cancel