Download and Install VirtualBox

To run Windows on a Mac, you need to use virtualization software such as VirtualBox. While there are other options available (such as Parallels and VMware Fusion), VirtualBox is free. And while Bootcamp is also a free option, it doesn't let you run macOS and Windows simultaneously (you have to reboot the machine every time you want to switch to the other operating system). So with VirtualBox you get the best of both worlds — it's free, and it allows you to run both Windows and macOS simultaneously so you can switch between them as required without having to reboot.

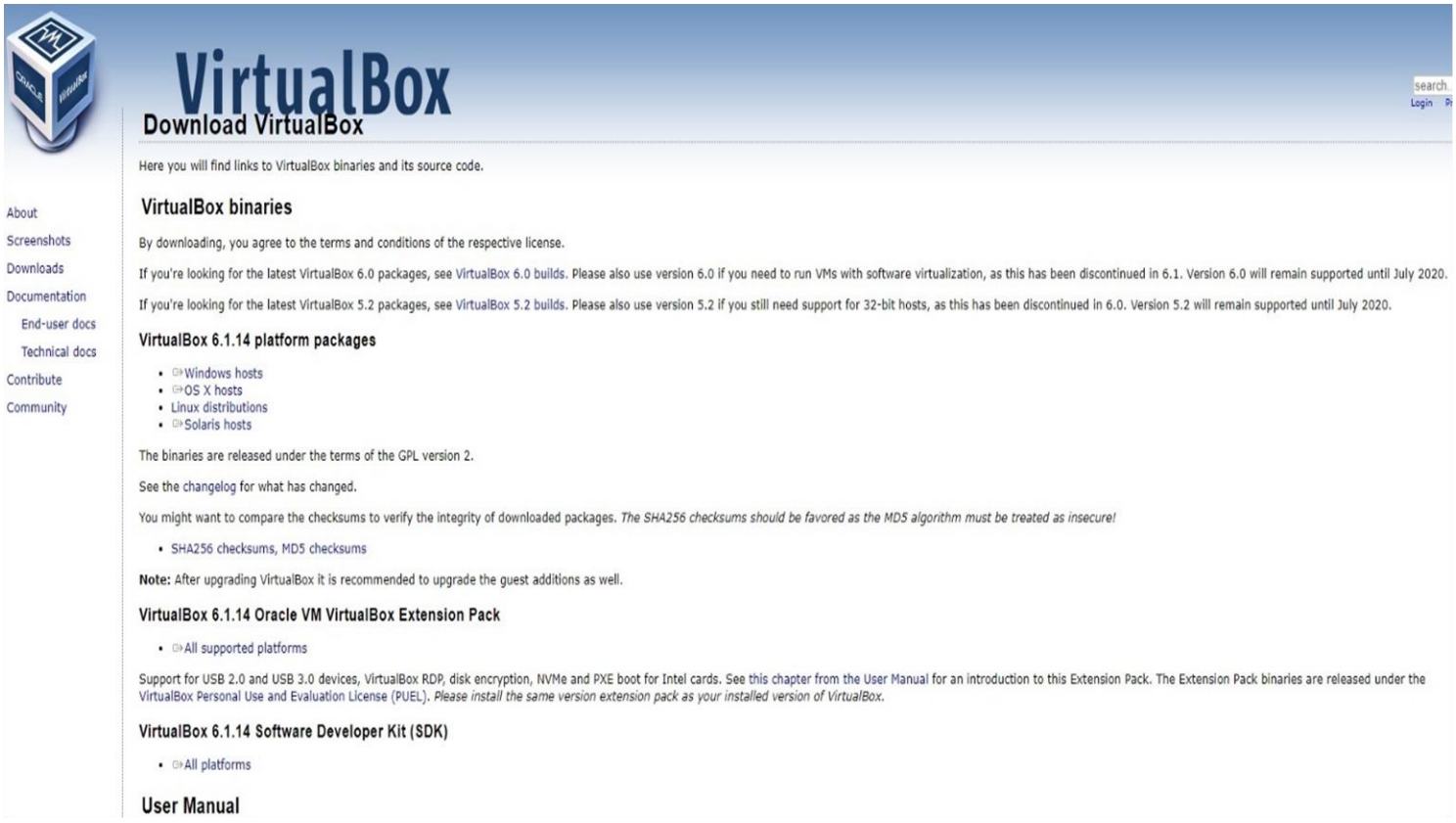
Before you start you will need to download VirtualBox and a Windows 10 VM provided by Microsoft and create a share folder on your desktop.

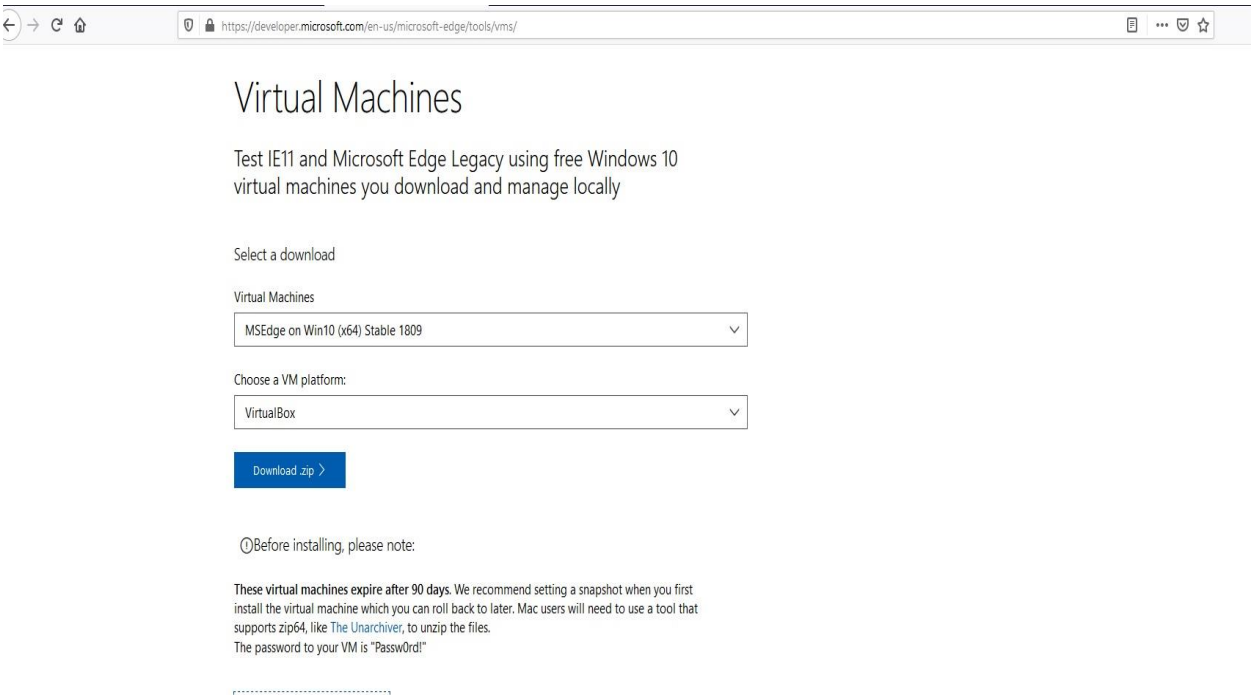
Create a new folder on your desktop give it a name you will find useful for the purpose of this tutorial it will be called vm share. This folder will be covered later on in the tutorial.

After you have created the folder move on to the next steps.

1. download VirtualBox from the following link VirtualBox download page and select OS X hosts2.

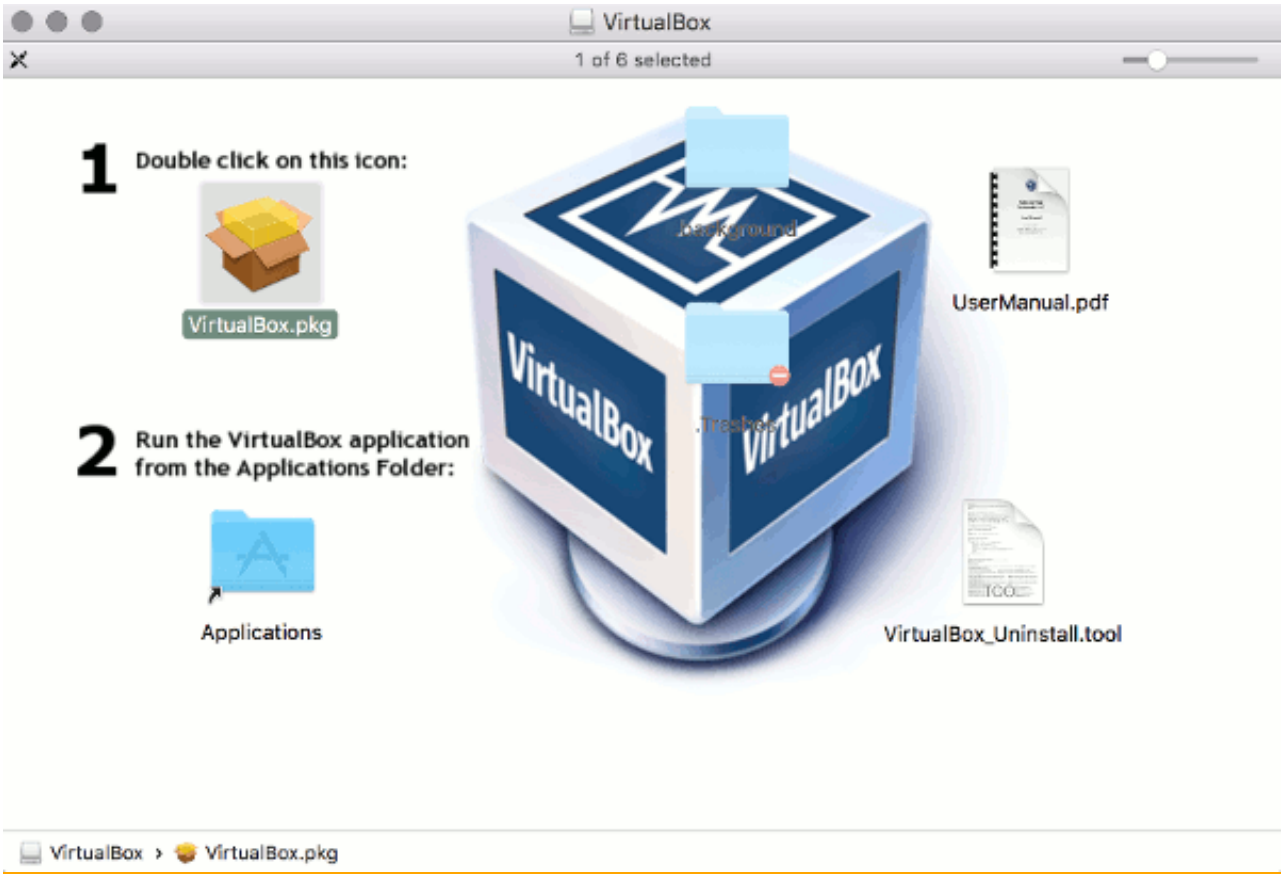
2. Download the Windows 10 from the following link https://developer.microsoft.com/en-us/microsoft-edge/tools/vms/. From the drop down lists under **Virtual Machines** select ***MSEdge on Win10 (x64) Stable 1809*** under **Choose a VMplatform** select ***VitualBox***





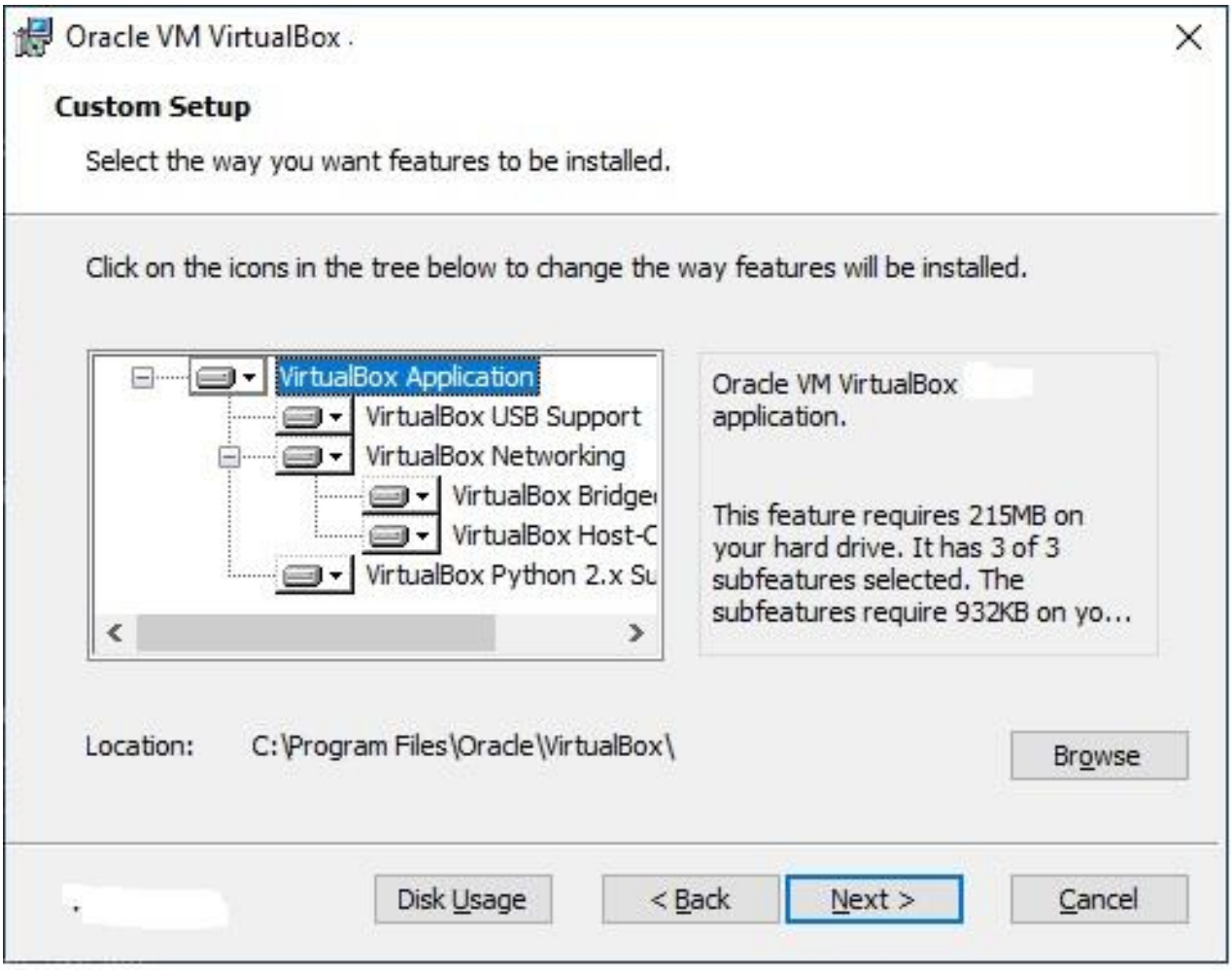
Install VirtualBox

Double-click the `VirtualBox.pkg` icon to install VirtualBox. This will enable you to run VirtualBox from your Applications folder.

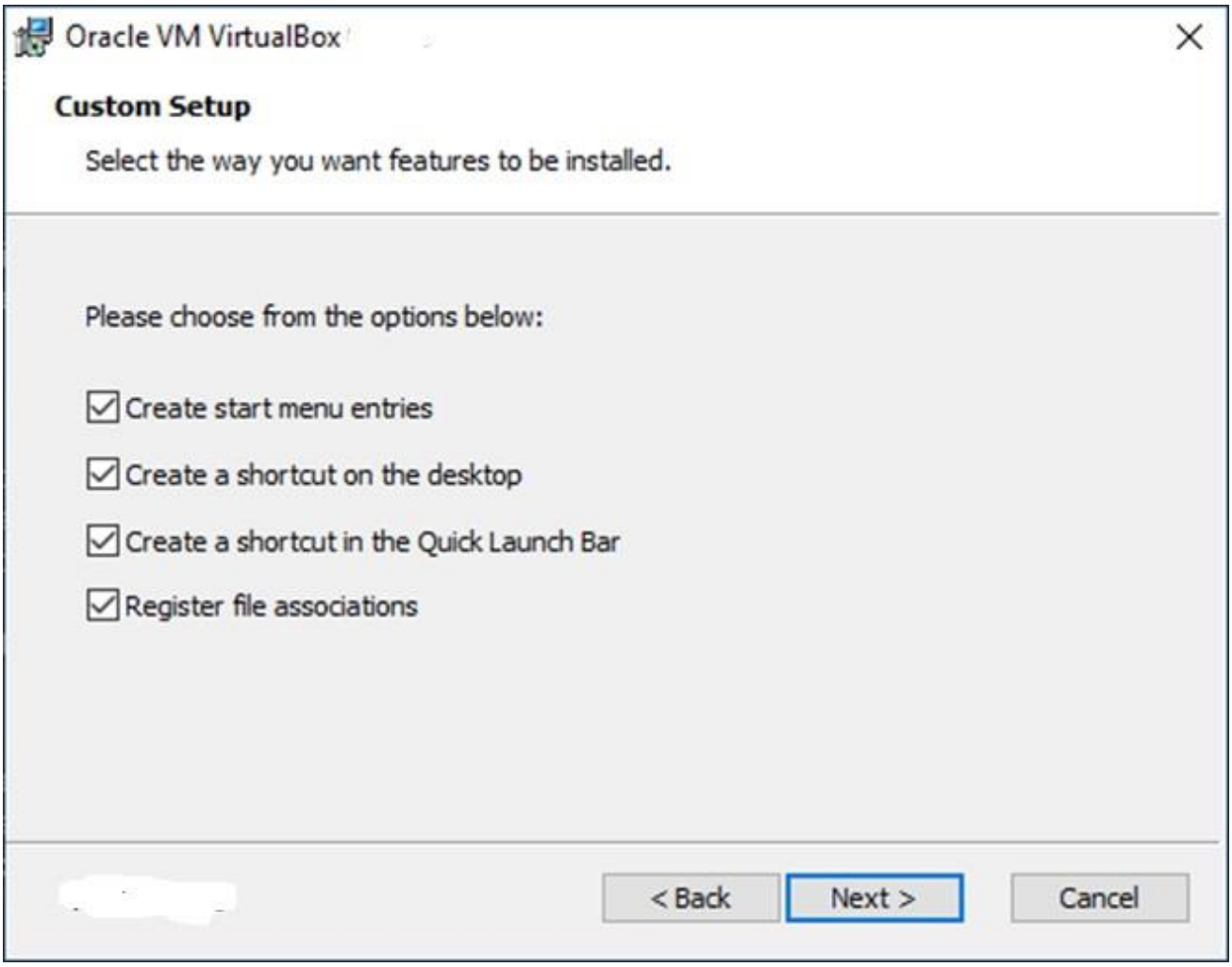

VirtualBox
1 of 6 selected
1 Double click on this icon:
VirtualBox.pkg
2 Run the VirtualBox application from the Applications Folder:
Applications
.background
.Trashes
VirtualBox
VirtualBox
UserManual.pdf
VirtualBox_Uninstall.tool
VirtualBox › VirtualBox.pkg


Oracle VM VirtualBox 6.1.8 Setup
Welcome to the Oracle VM VirtualBox Setup Wizard
The Setup Wizard will install Oracle VM VirtualBox 6.1.8 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
Version 6.1.8
Next >
Cancel

Click Next



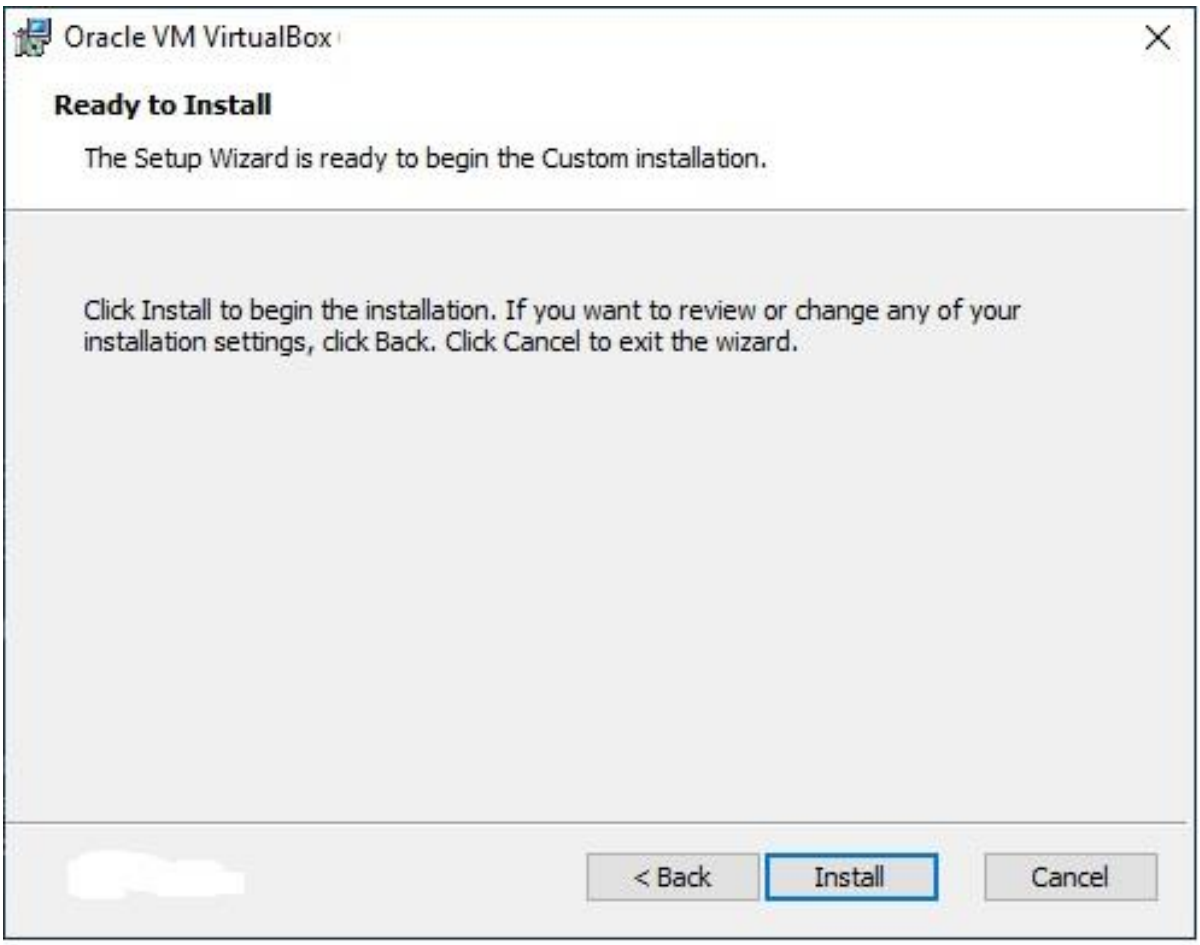
Keep all default settings and click **Next**



Deselect shortcuts if you desire, keep Register file associations selected and click **Next**

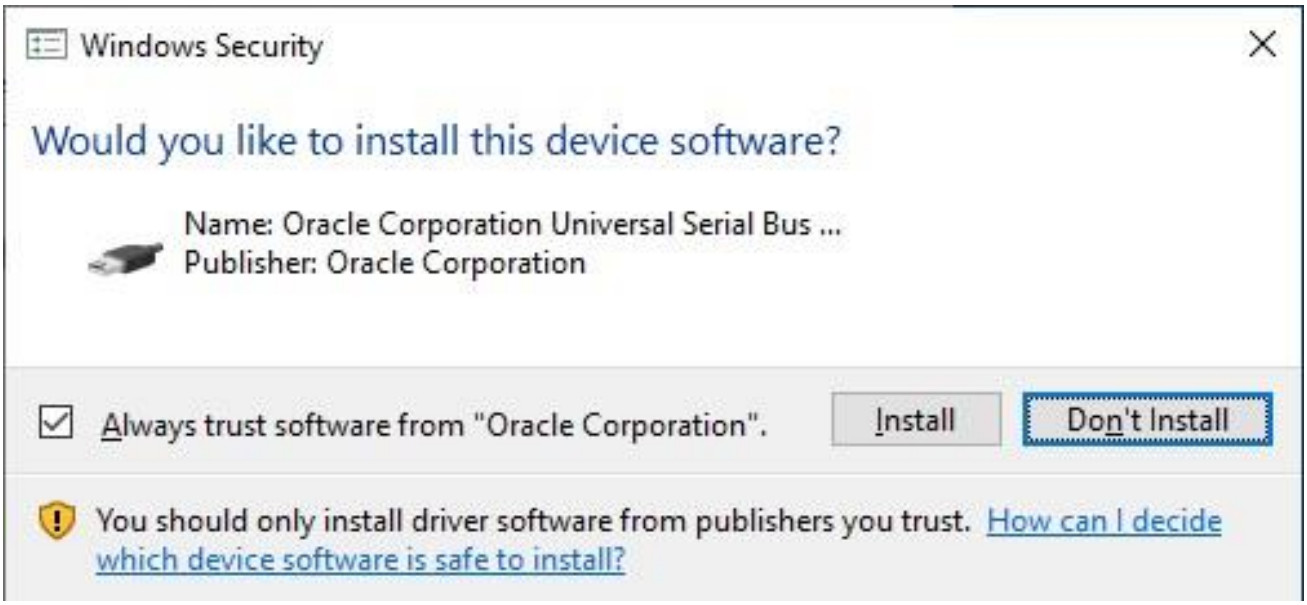

Oracle VM VirtualBox
Warning:
Network Interfaces
Installing the Oracle VM VirtualBox 6.1.8 Networking feature will reset your network connection and temporarily disconnect you from the network.
Proceed with installation now?
Yes
No

Click **Yes**



Click **Install**
Accept any UAC prompts by clicking **Yes**

Wait while the software installs



At the Windows Security prompt, ensure **Always trust software from "Oracle Corporation"** is selected and click **Install**

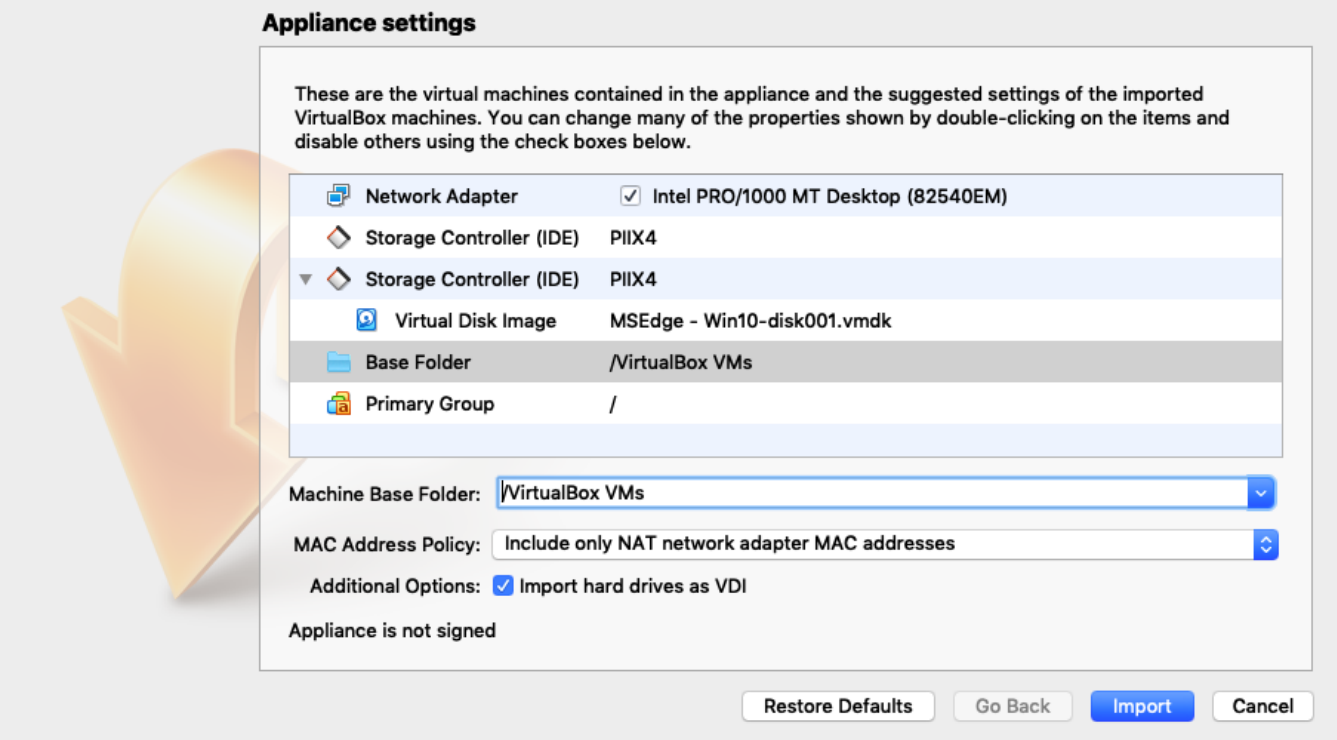
Deselect **Start Oracle VM VirtualBox after installation** and click **Finish**

Setting up a VM

Go to the location of the ***MSEdge.Win10.VirtualBox.zip*** you downloaded earlier and unzip the file. Within the zip file there is a VM named ***MSEdge - Win10.ova***

Double click the .**ova** file

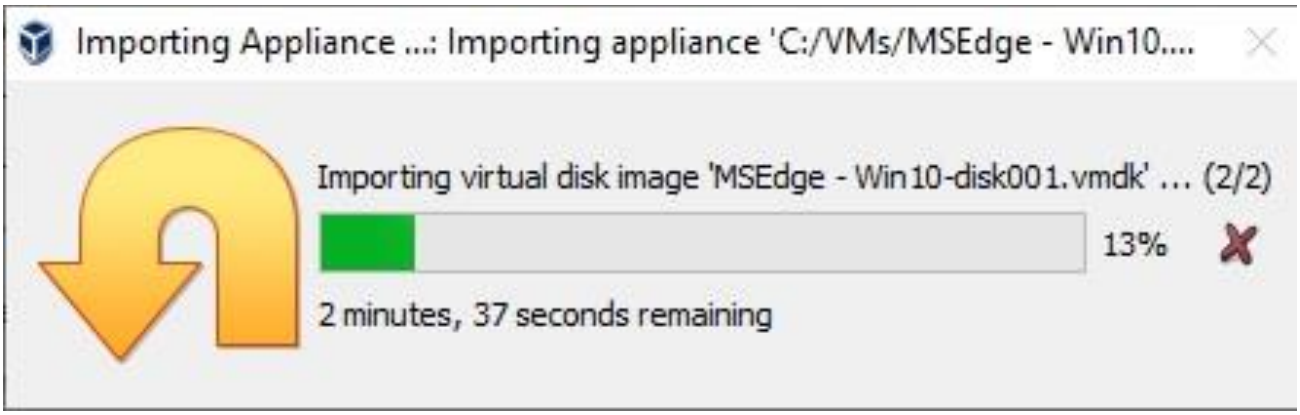
VirtualBox will open at the
Appliance settings wizard



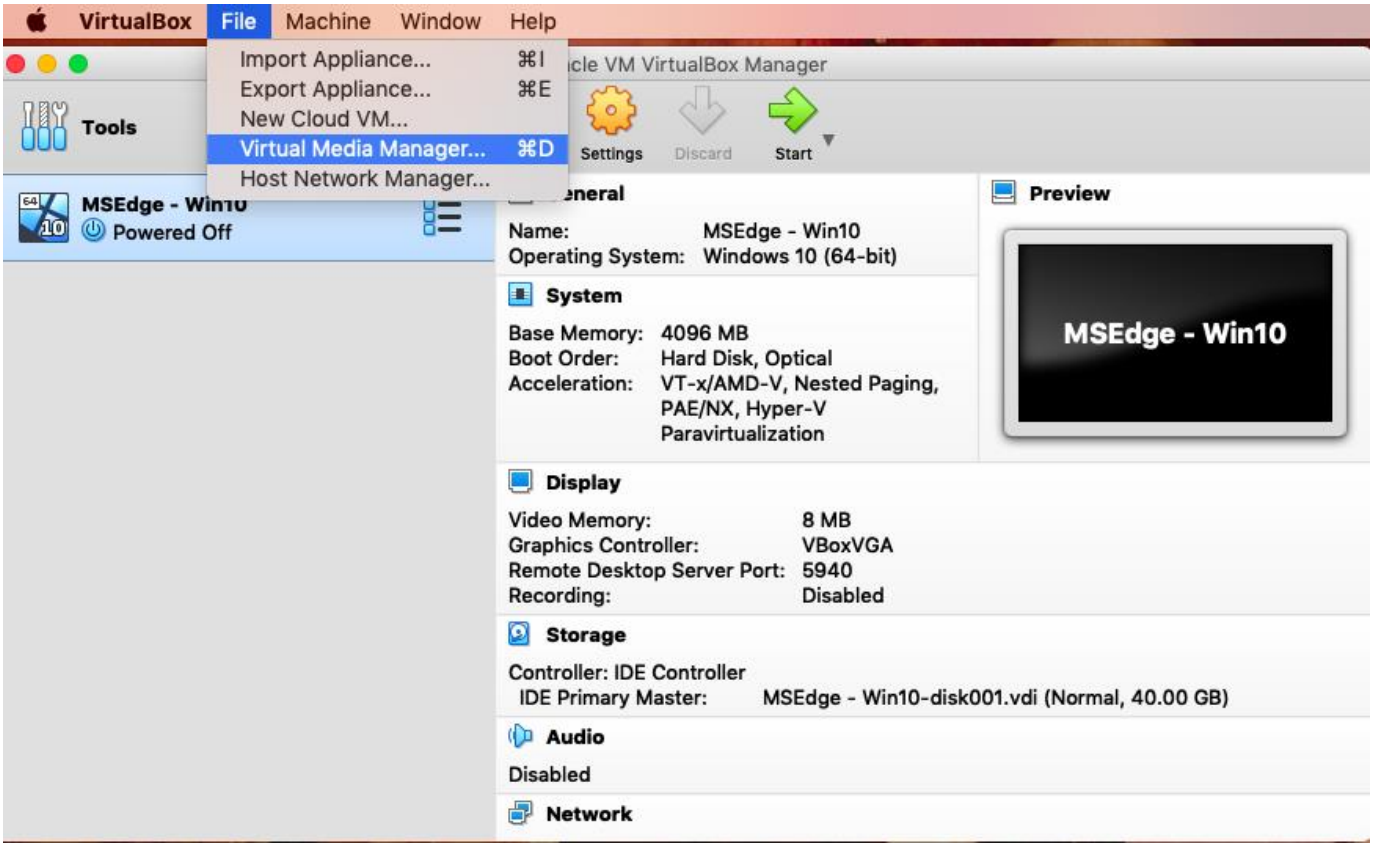
There are some settings
that need to be
changed before you proceed.

• Name: **You can leave the name default or change it to whatever you like**
• CPU: **2**
• RAM: **4096 MB**
• BaseFolder: **\VirtualBoxVMs**
• Machine Base Folder: **\VirtualBox VMs**

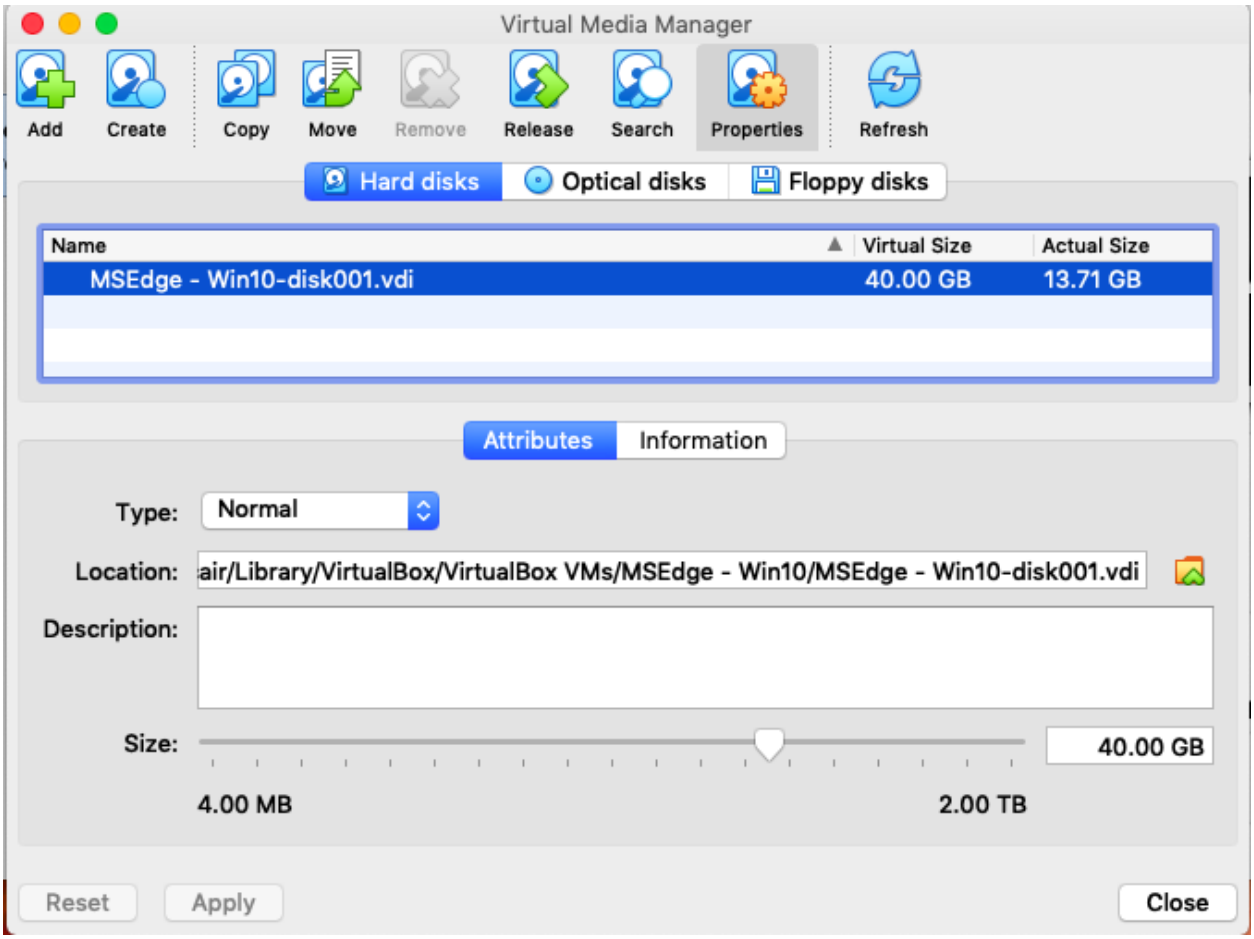
Click **Import**



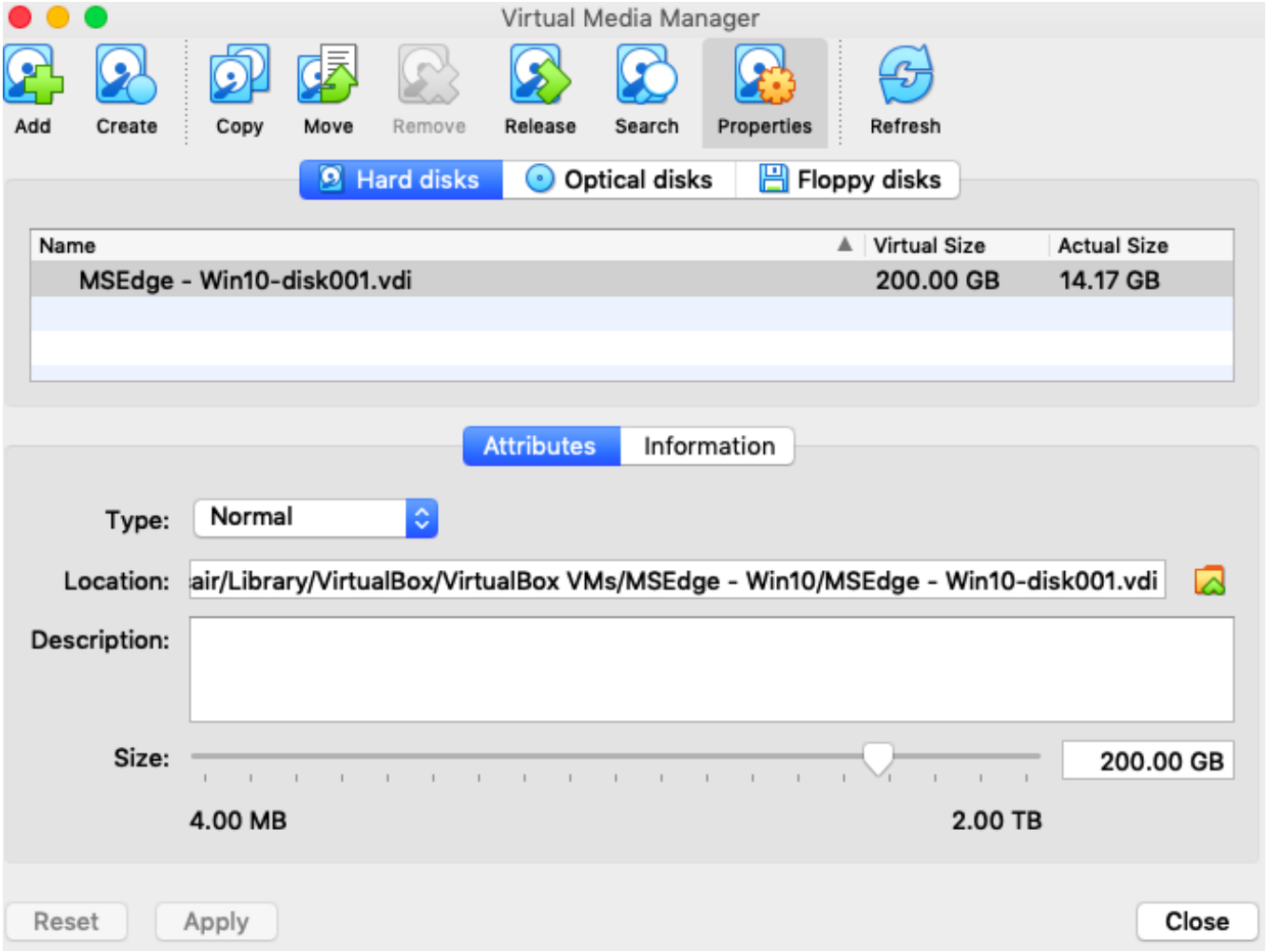
Wait while the appliance is imported - it will be imported to the Base folder location specified above



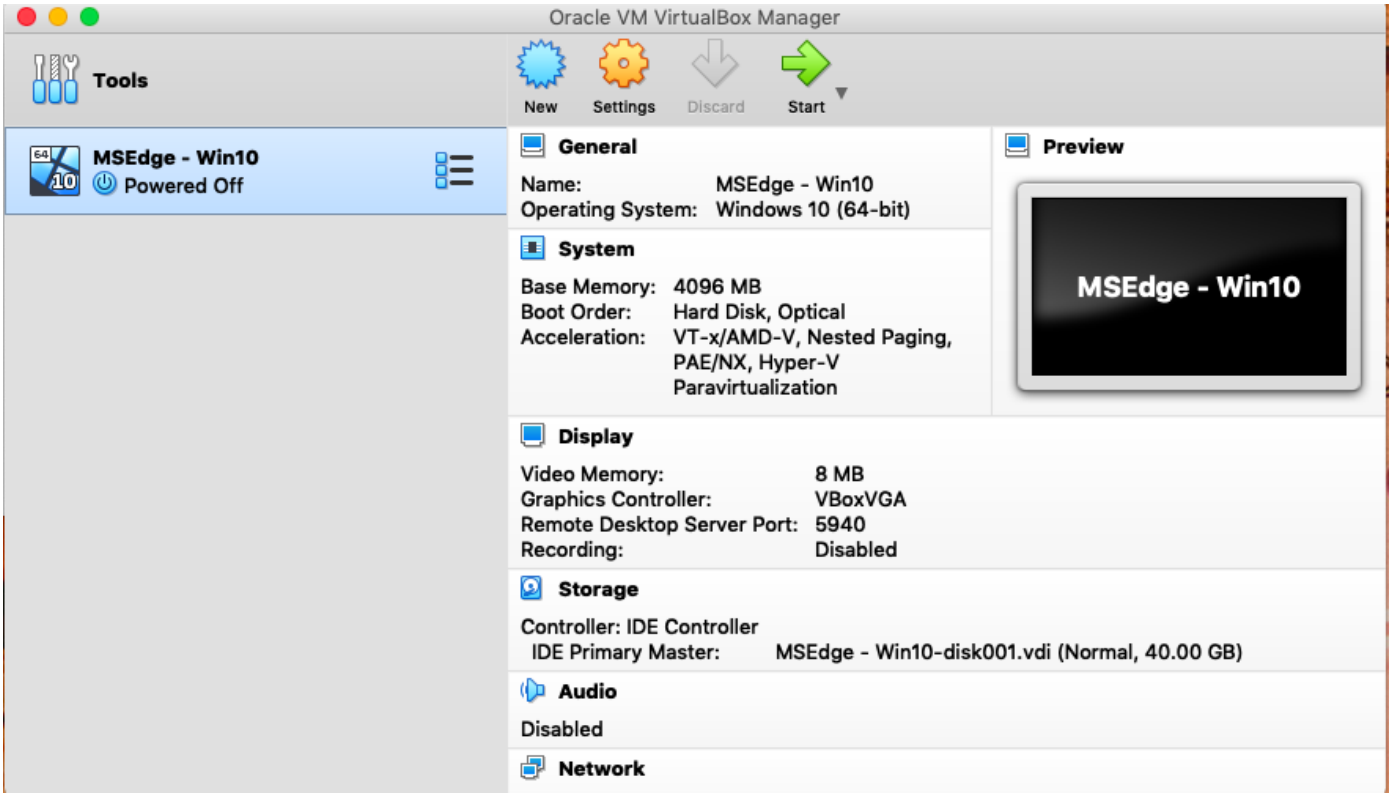
Click **File** and select **Virtual Media Manager**



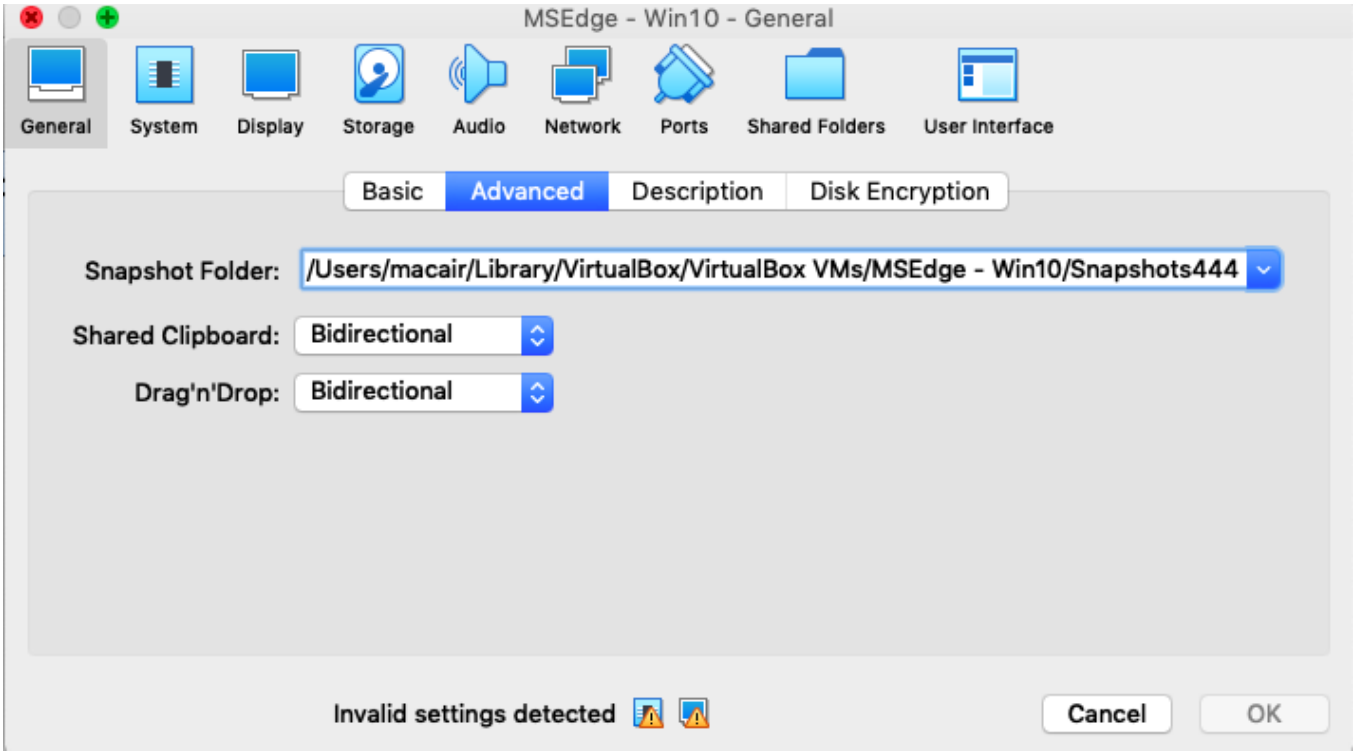
The **Virtual Media Manager** will open
Double click the .vdi file listed



Adjust the slider (or type in the amount in the box on the right- hand side) so that
you have the size of disk you require set it to 200GB
Click **Apply** and then **Close**



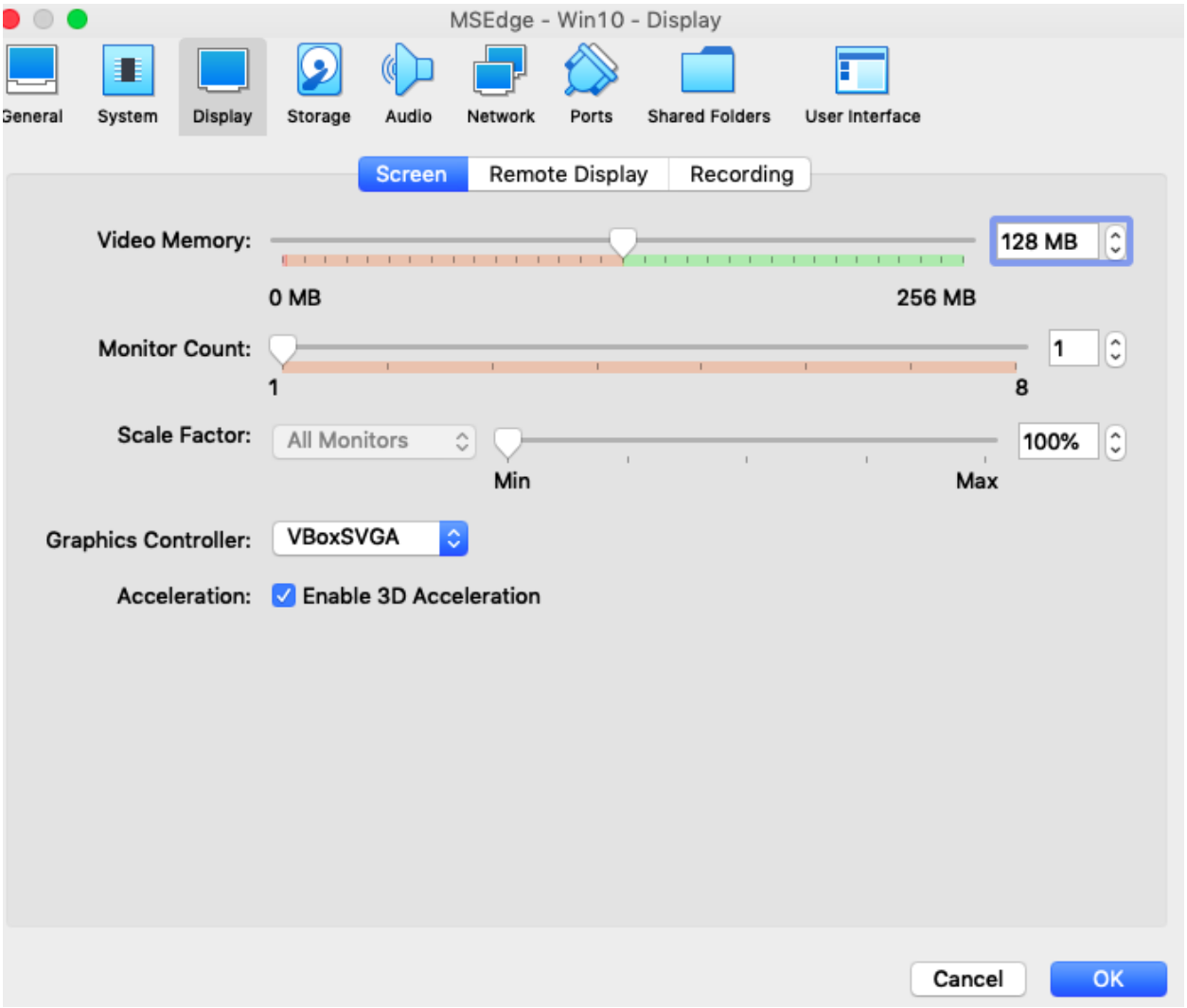
Click **Settings**



In the General menu, select the **Advanced** tab

Shared Clipboard:
Change to *Bidirectional* (this allows you to copy and paste between the host machine and the VM)

Drag'n'Drop:
Change to *Bidirectional* (this allows you to drag and drop folders to this VM from the host machine)



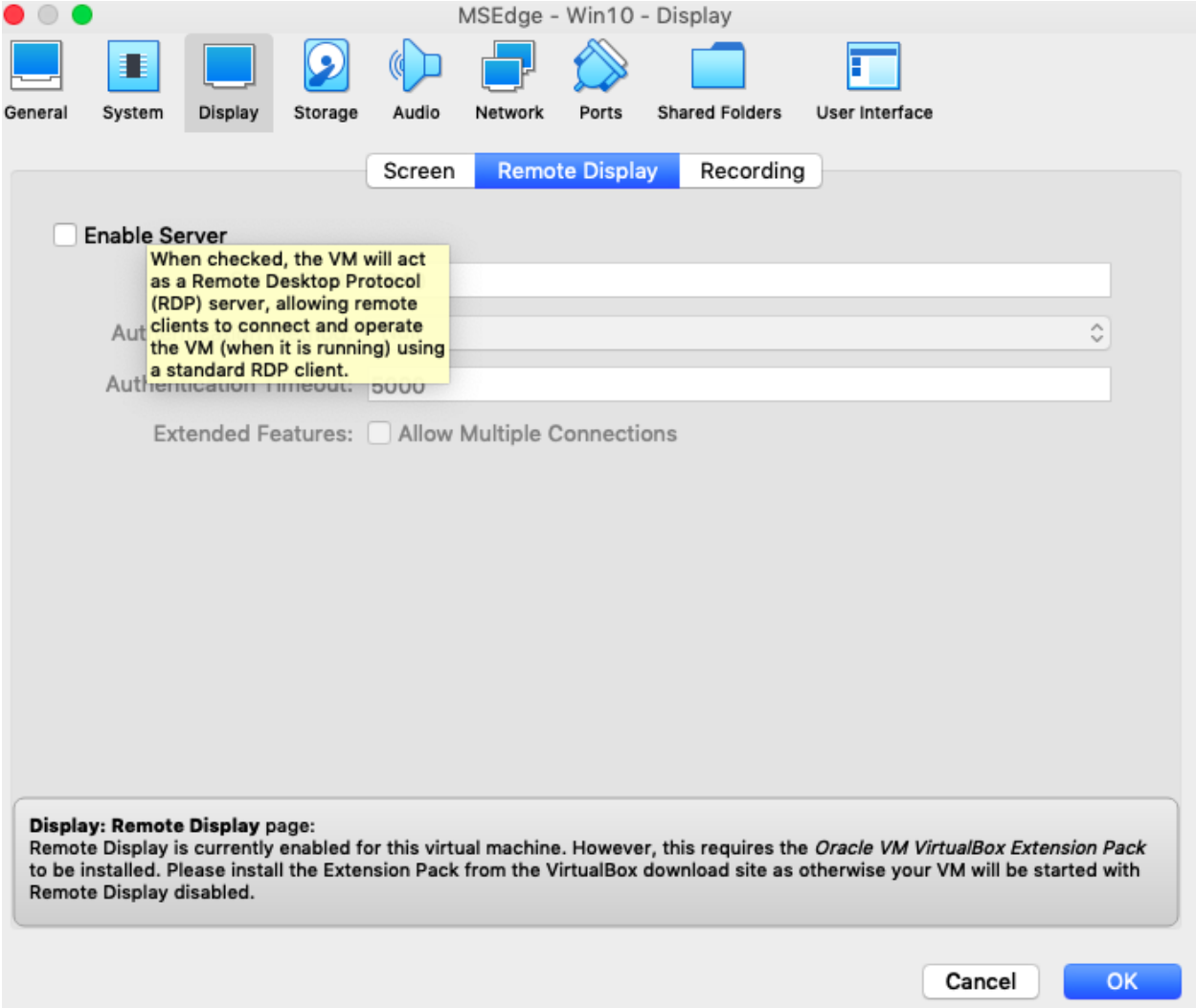
Select **Display** from the menu and change the following settings:

Acceleration -enabled 3D Acceleration

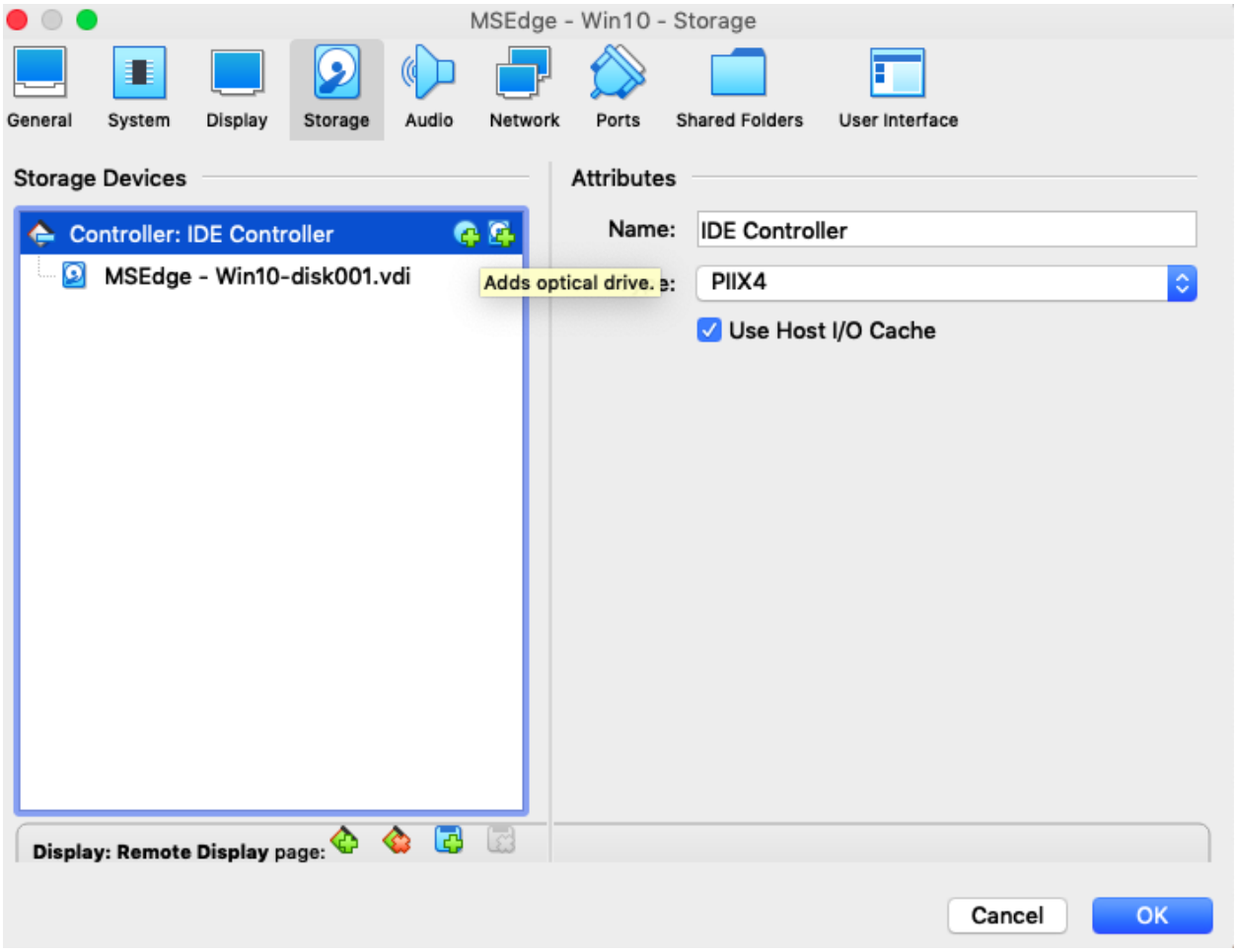
Graphics Controller -Change to VBoxSVGA (if not changed you will get invalid settings detected)

Video Memory - set this to maximum (256 MB)

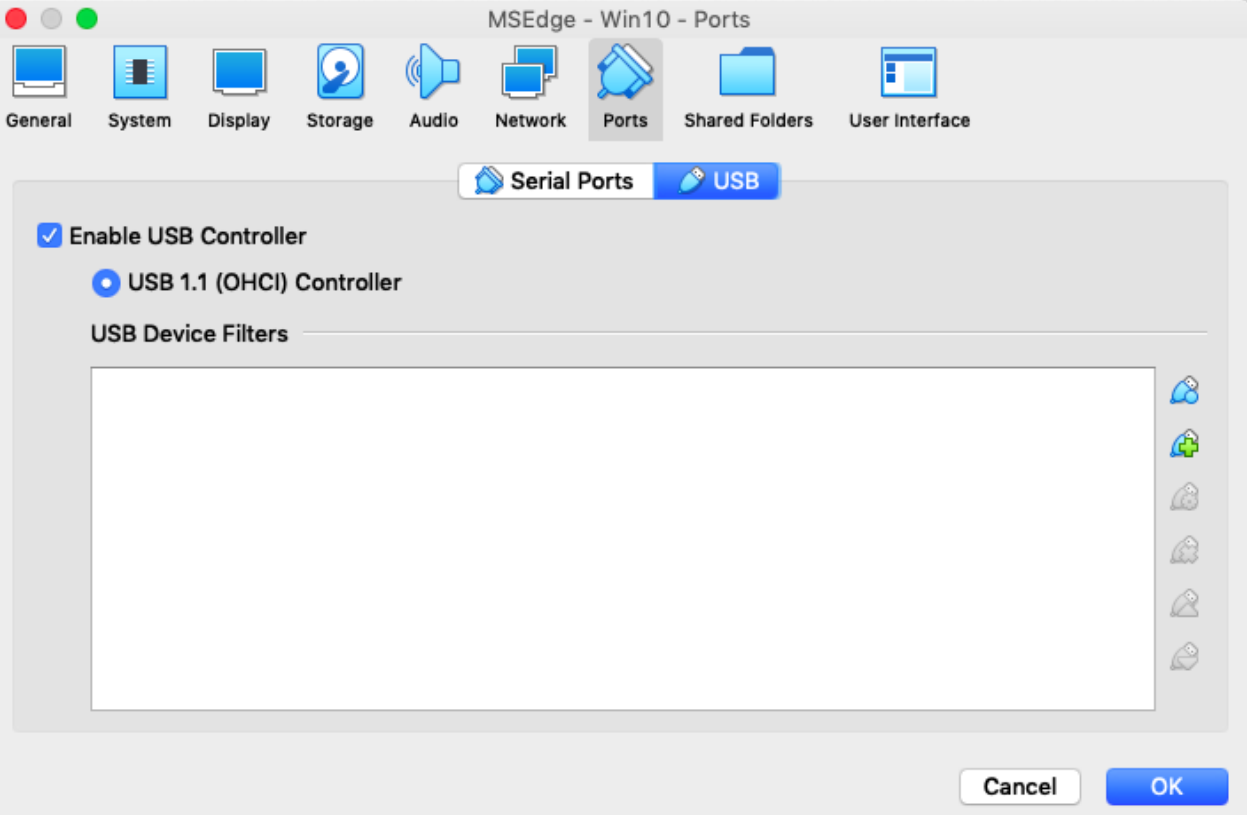
Note: Set **3D Acceleration** first then increase the **Video Memory** to max



Select
the **Remote Display** tab
Deselect **Enable Server** (if not deselected you will get invalid settings detected)

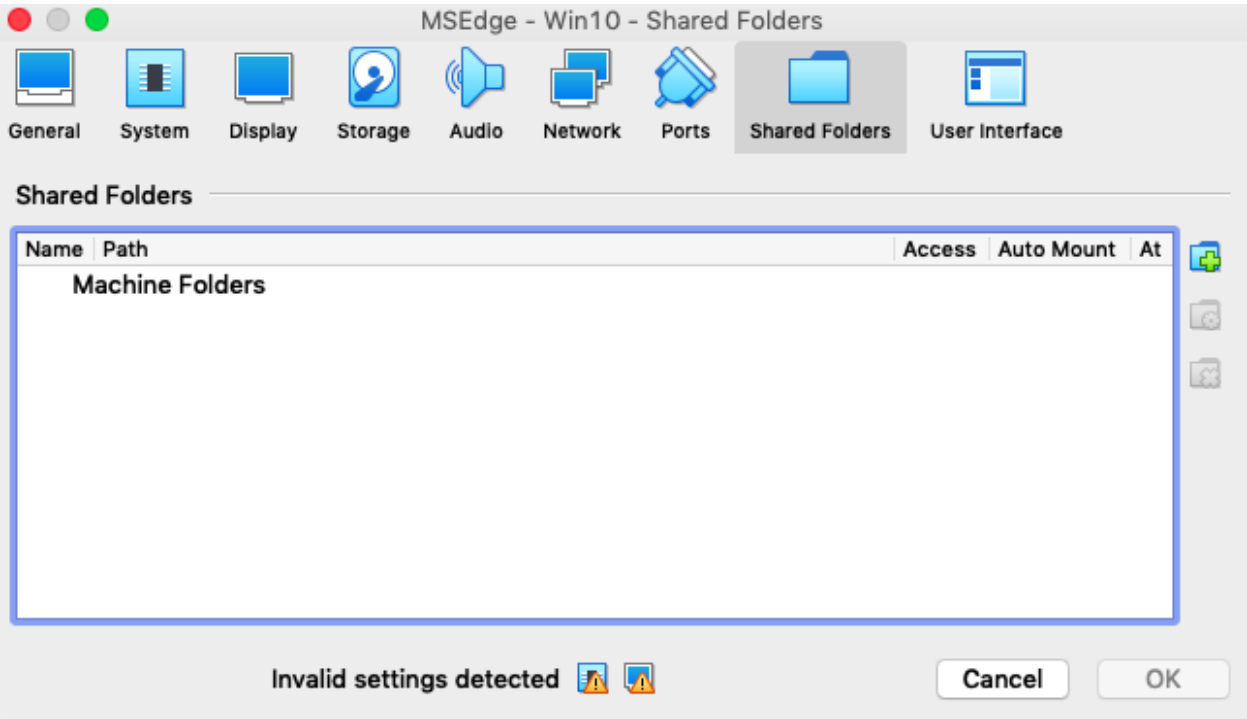


Select **Storage** from the menu
Click the first + icon next to **Controller: IDE Controller** - this will add an optical drive to the VM, when asked select **Leave empty**
Note: this is important as otherwise you will not be able to add the Guest Additions later!



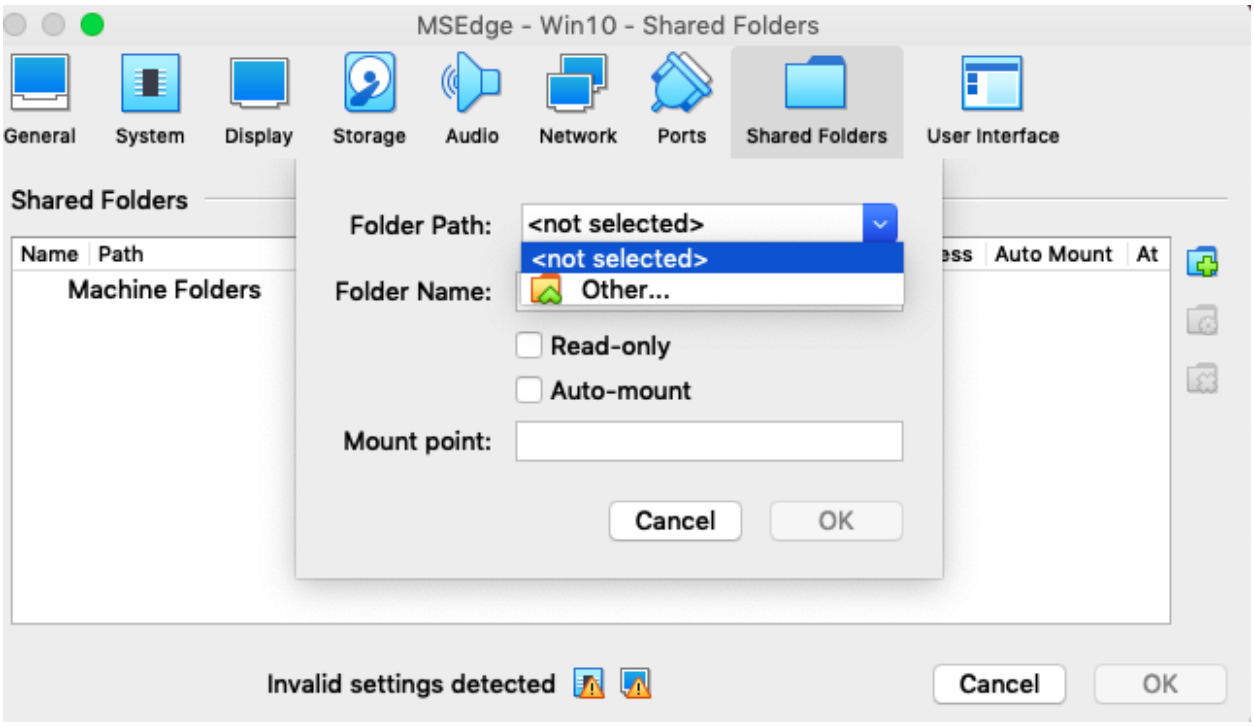
Select **Ports** from the menu
Enable the **USB Controller**

Note: this will allow you to plugin USB devices and for them to be picked up by the VM – it is usually best to just set this to USB 1.1

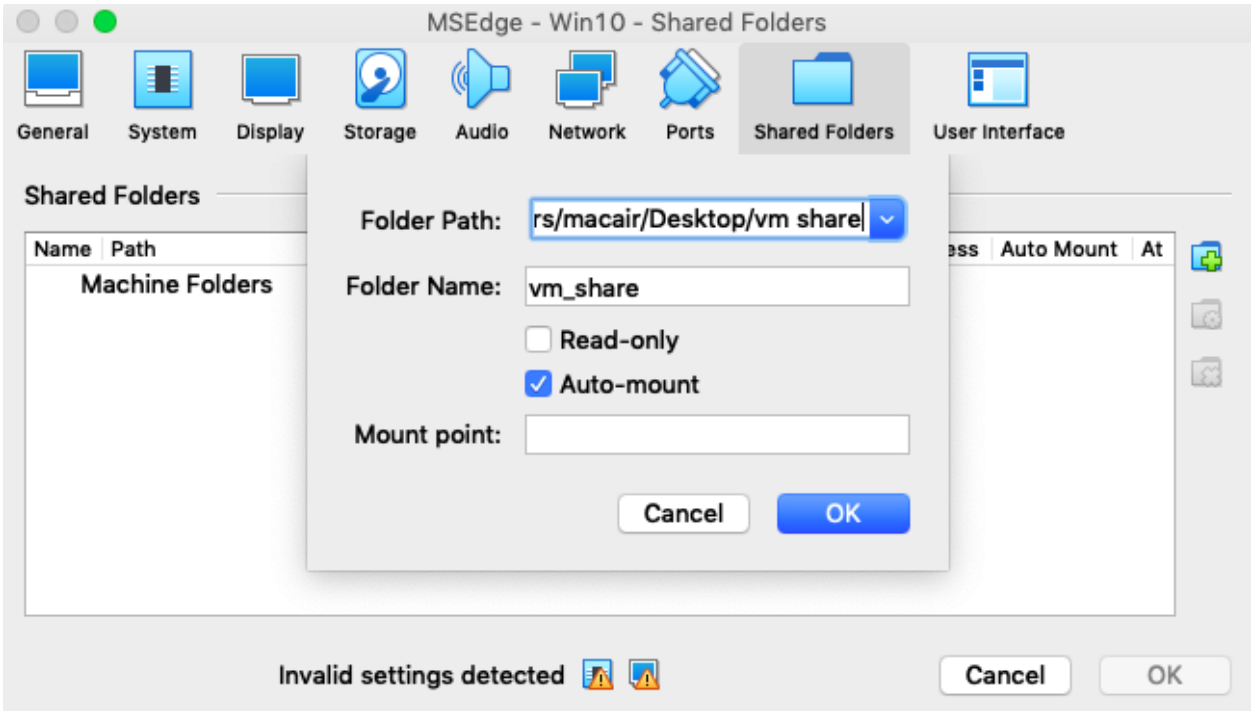


Select **Shared Folders** from the menu
Shared Folders are useful when using VM's - they are folders that reside on the host machine (even attached storage such as USB drives) that can be seen by the VM

Note: Shared Folders will not work properly until the **Guest Additions** are installed in the VM instruction for guest additions will follow.



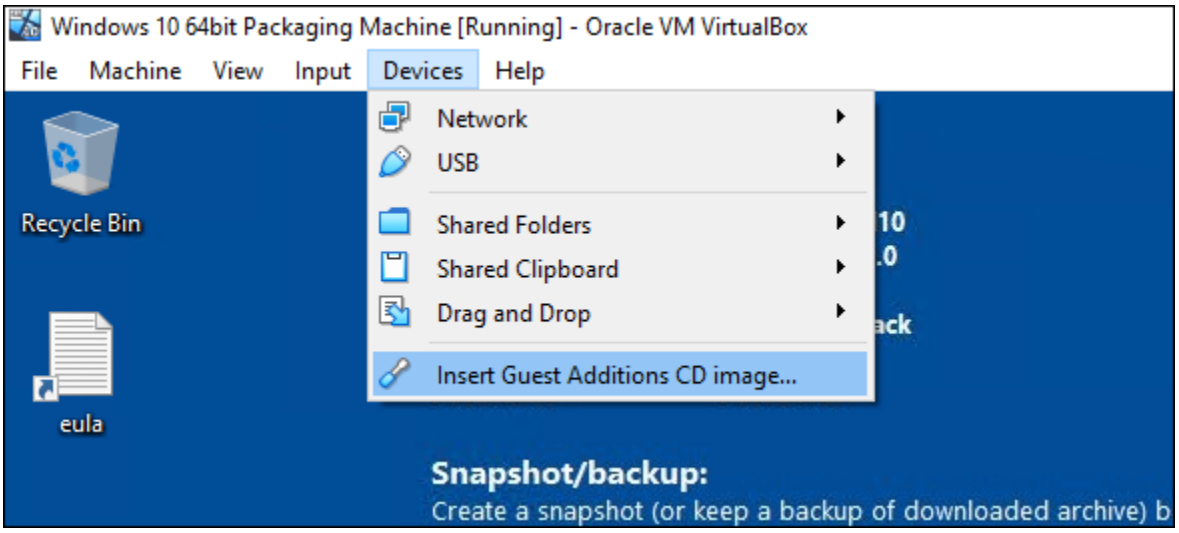
Select the **+** button on the right-hand side and in the **Folder Path:** select **Other.**



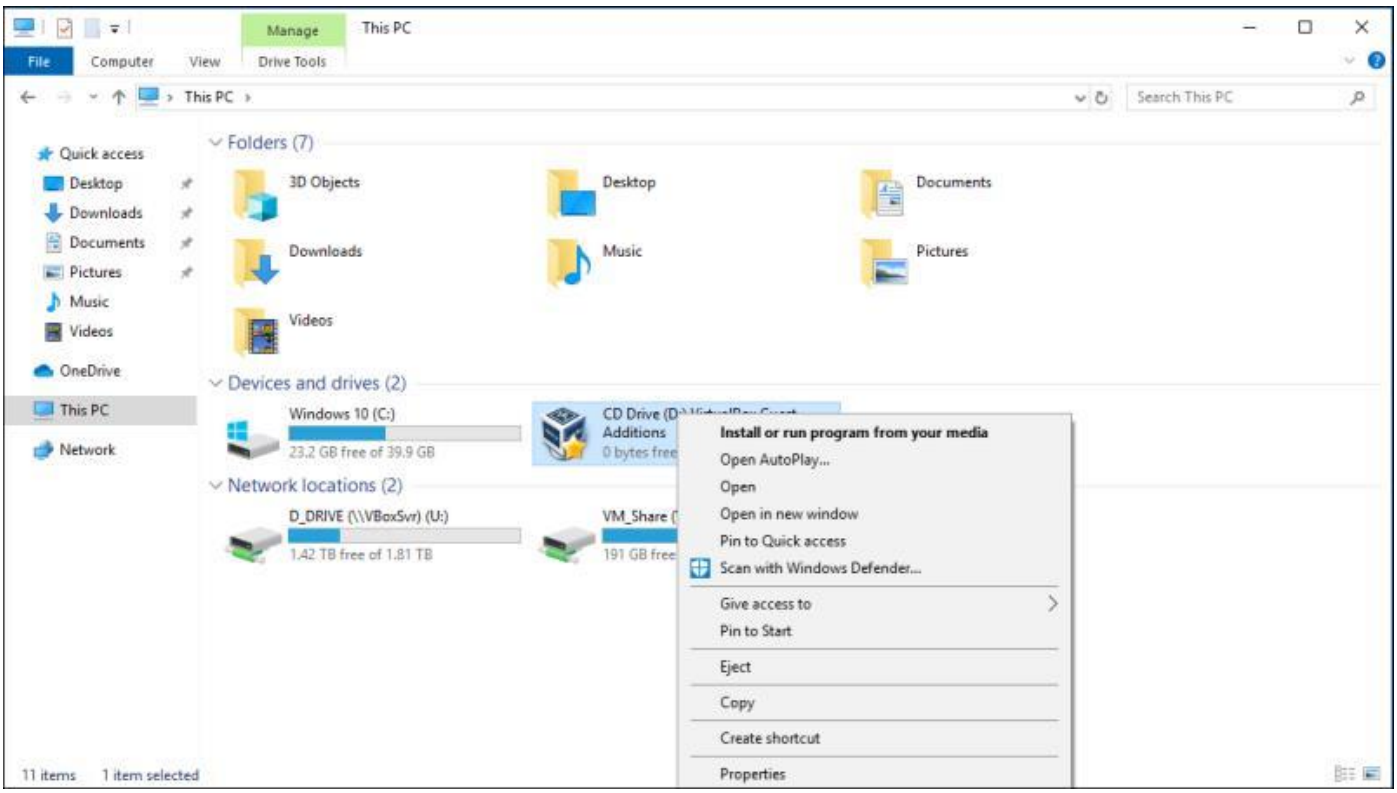
Point **Folder Path:** to the vm share you created ealier that is located on your desktop. Be sure to check **Auto-mount** then click **OK.** Then click **OK** to close all boxes.

Configuring Windows, Installing Guest Additions

Start the VM and log into Windows with the preconfigured credentials:
Username: **IEUser**
Password: **Passw0rd!**



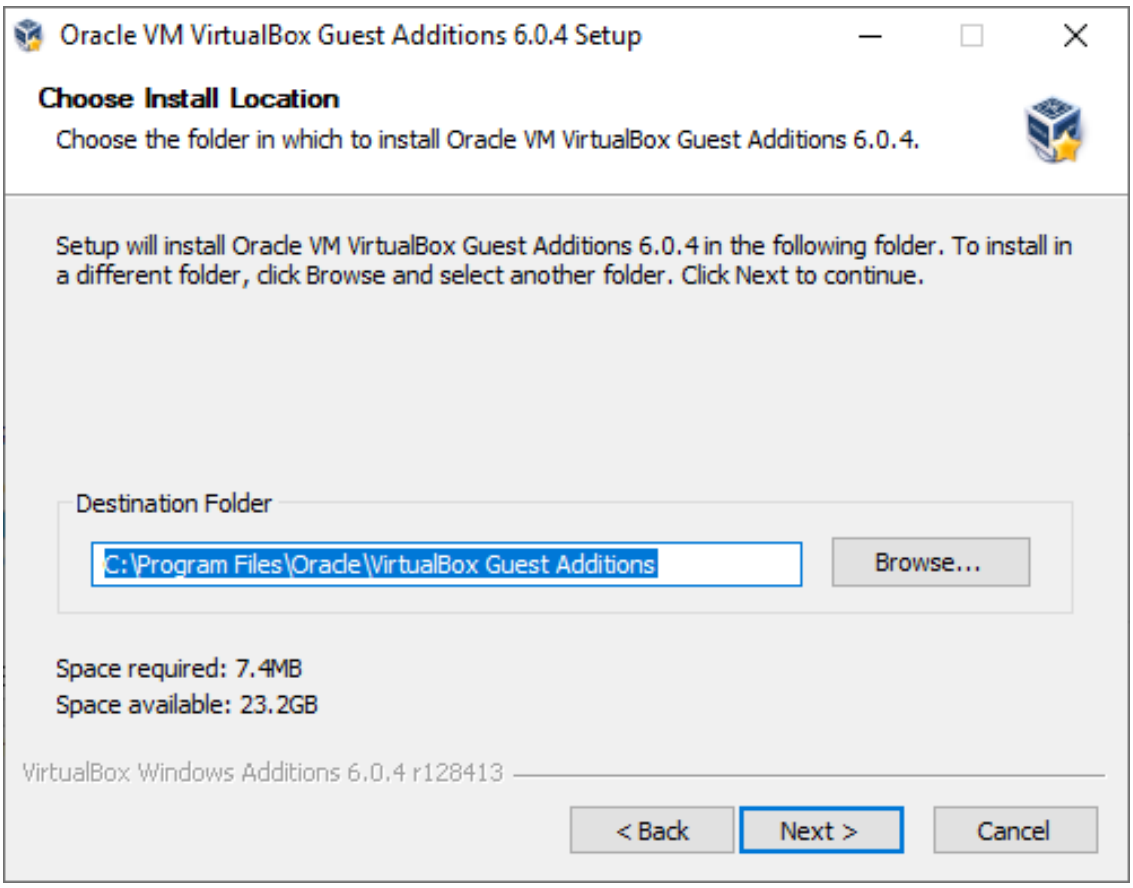
Go to the **VirtualBox menu** and select **Devices>Insert Guest Additions CD**



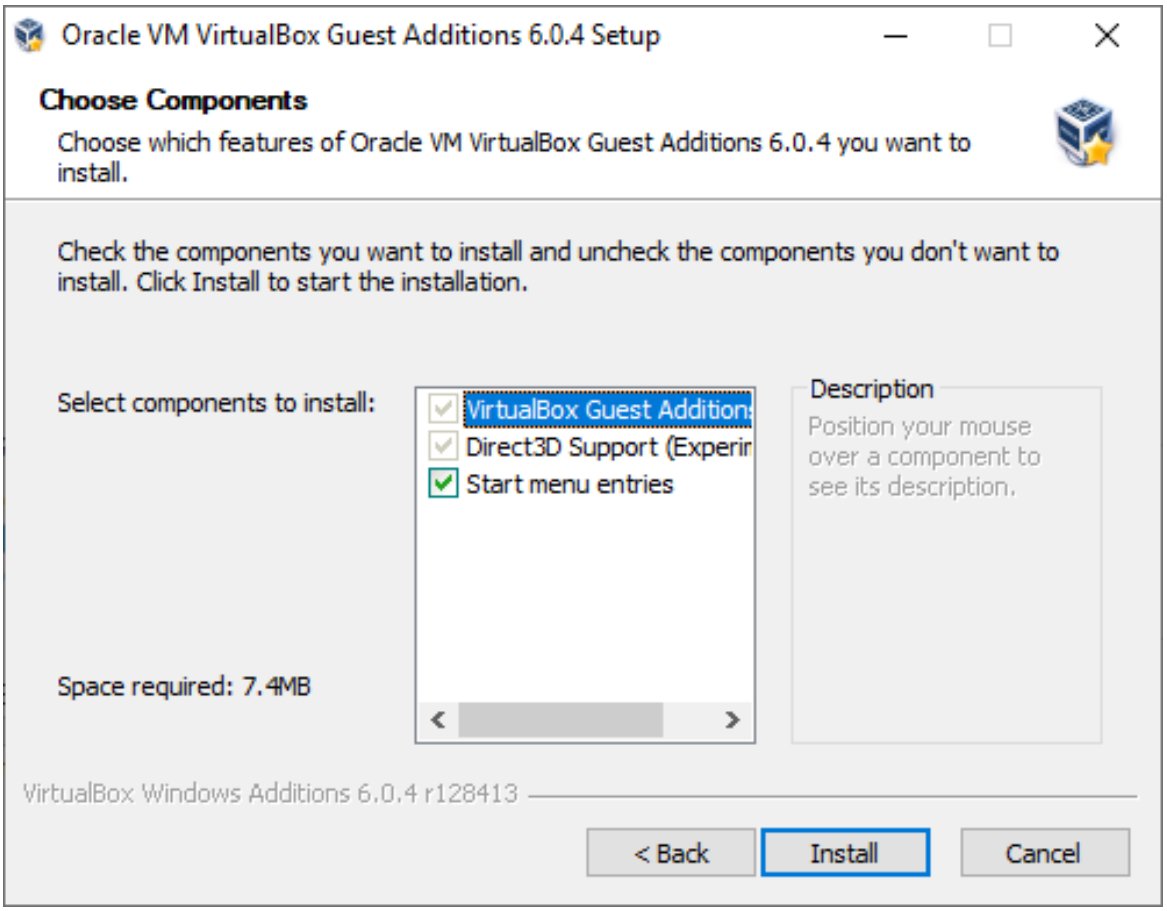
Open **This PC** in explorer, right click the **CD Drive** and select **Install or run program from your media** accept any UAC prompts.

The installer for the Guest Additions will start, click **Next**

Note: If VitualBox Guest Additions is a different version number than what is shown in the image that is fine just continue.



Accept defaults and click
Next

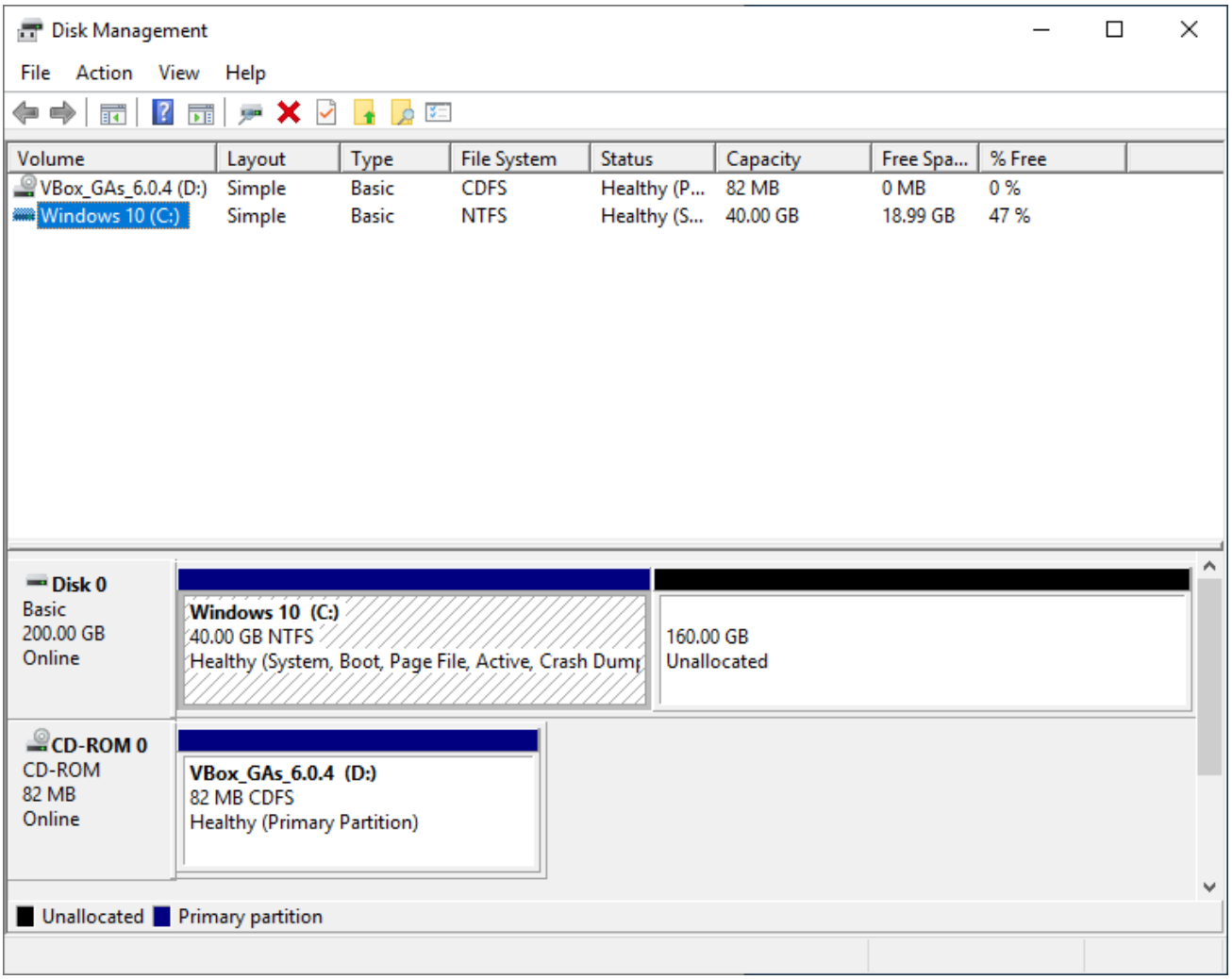


Accept defaults and click
Install

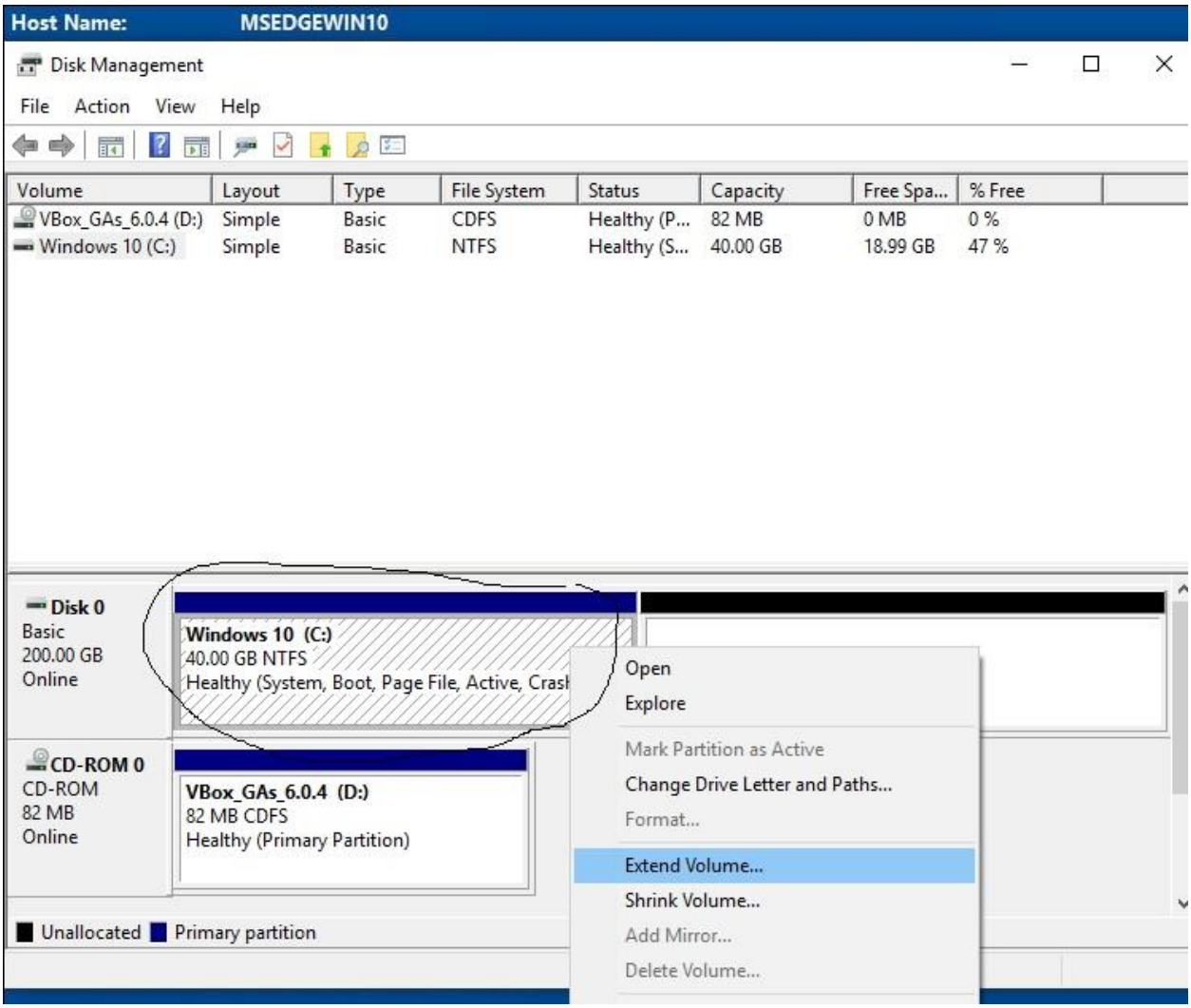
Wait for the software to install, ensure **Reboot now** is selected and click **Finish** - the VM will restart.

When the VM restarts, log back into the **IEUser** account and amend **Regional Settings** to your location if required – the default region is set to **US time and Keyboard**
It is recommended that Windows is completely up to date by checking for updates and restarting when required.

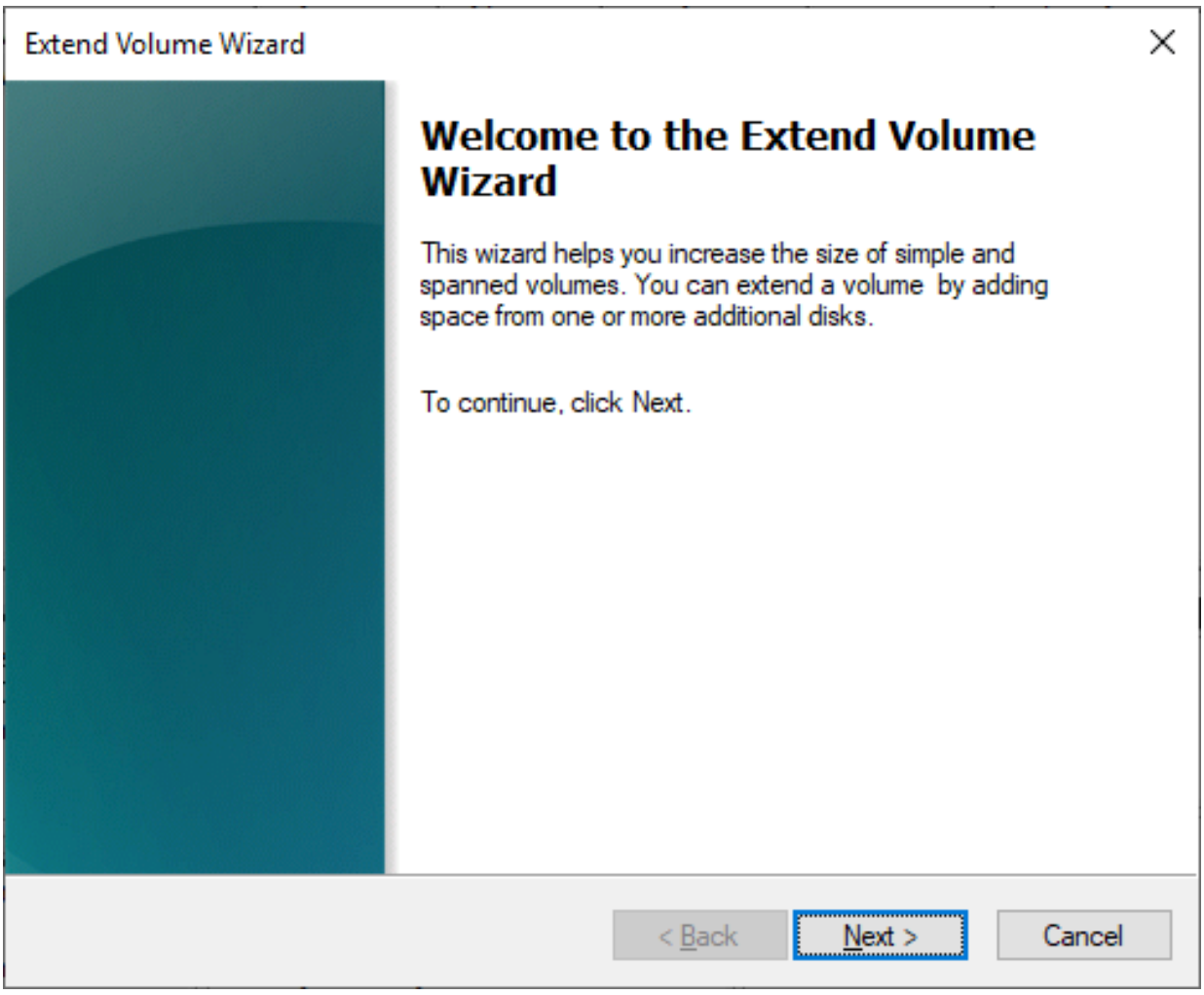
Increase the Windows Partition



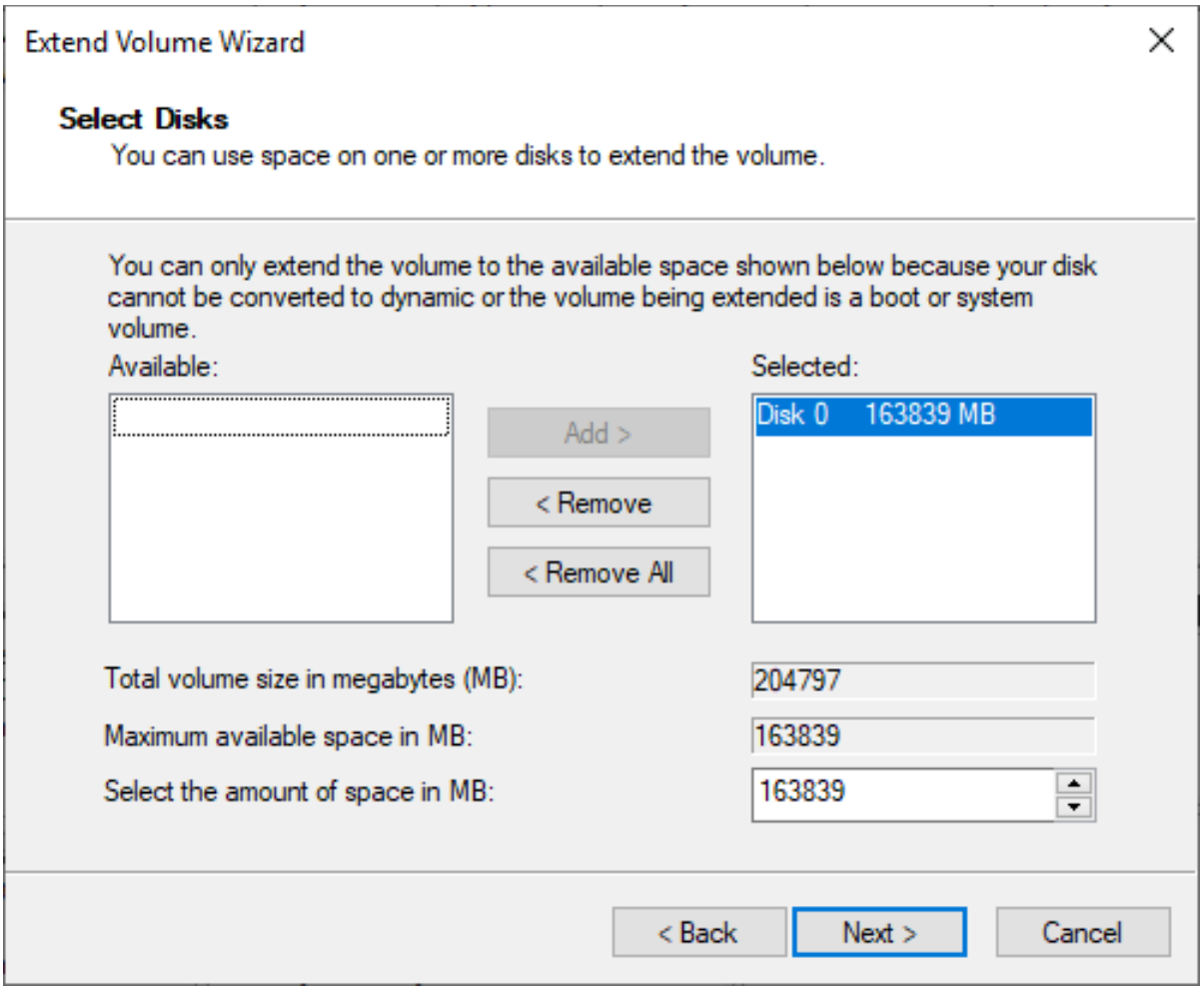
Open **Disk Management**



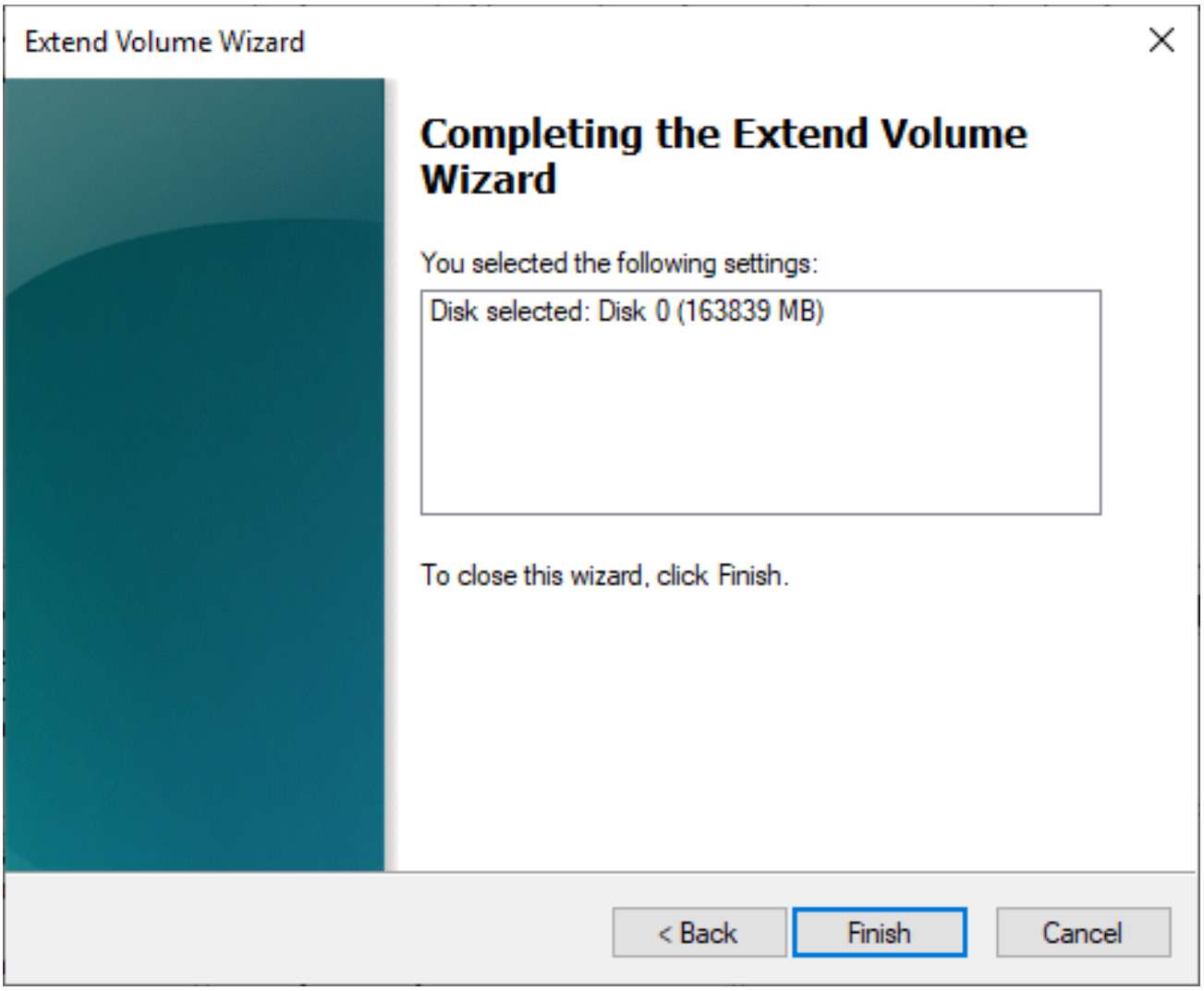
Right click the Windows 10 partition and select **Extend Volume.**



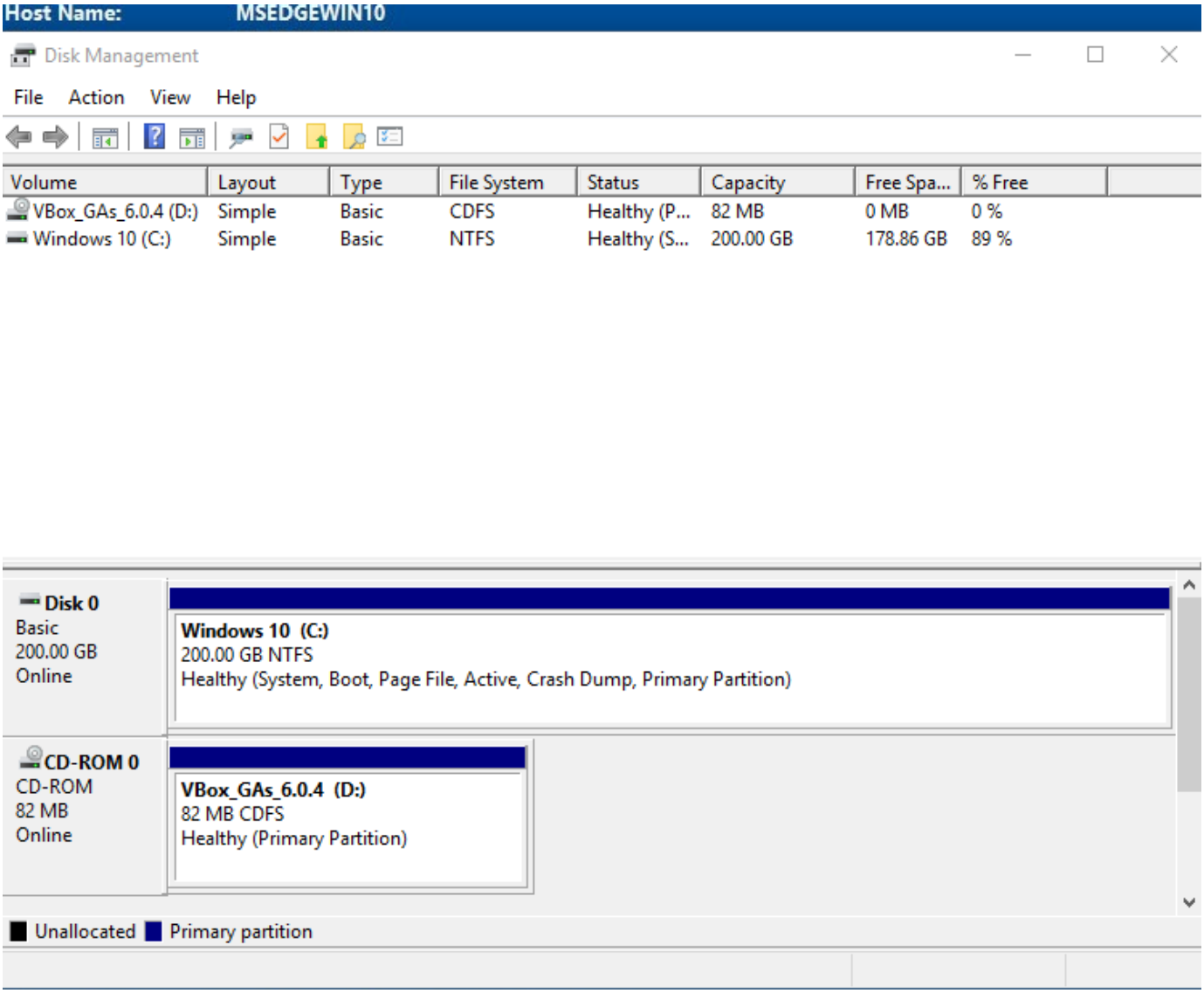
The **Extend Volume Wizard** will open, click **Next**



By default, the wizard should extend the disk by the rest of the unallocated space, click **Next**



When the wizard has completed click **Finish.**



The disk will now show as **200GB** – close the Disk Management Window

You are now done setting up your Windows 10 VM.