



Individual Assessment Coversheet

To be attached to the front of the assessment.

Campus: Pretoria _____

Faculty: Information Technology _____

Module Code: ITWIAO-B22 _____

Group: Group 1 _____

Lecturer's Name: Ms.Ngwane.N. _____

Student Full Name: Kelebogile Nanikie Mathebula _____

Student Number: 35113 _____

Indicate	Yes	No
Plagiarism report attached	✓	

Declaration:

I declare that this assessment is my own original work except for source material explicitly acknowledged. I also declare that this assessment or any other of my original work related to it has not been previously, or is not being simultaneously, submitted for this or any other course. I am aware of the AI policy and acknowledge that I have not used any AI technology to generate or manipulate data, other than as permitted by the assessment instructions. I also declare that I am aware of the Institution's policy and regulations on honesty in academic work as set out in the Conditions of Enrolment, and of the disciplinary guidelines applicable to breaches of such policy and regulations.

Signature: KNP MATHEBULA	Date 9/06/2025
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Lecturer's Comments:

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Marks Awarded:	%
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Signature	Date
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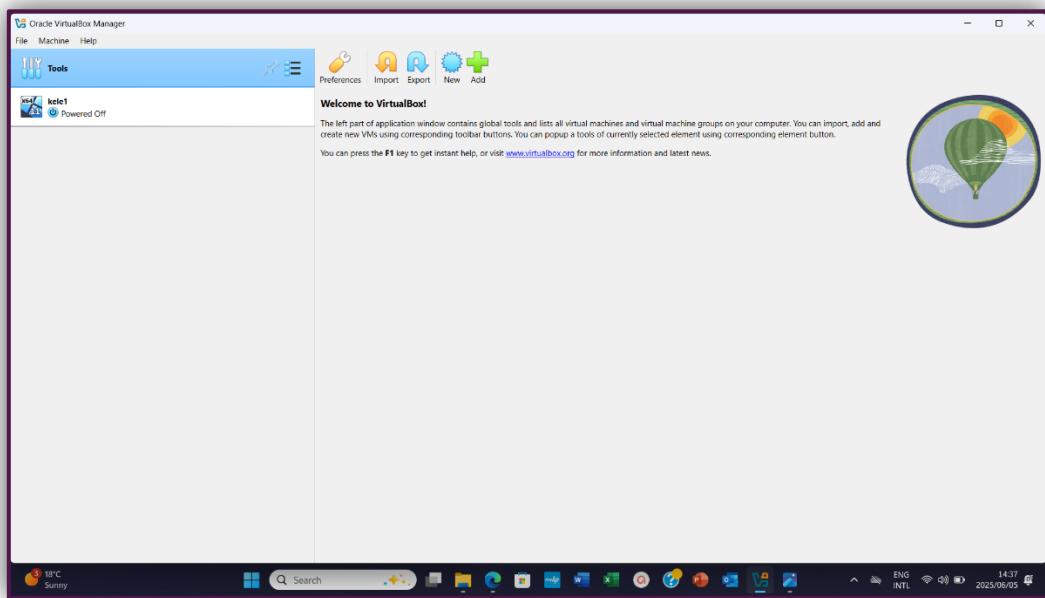
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Question 1

Setting UP a Virtual Office.

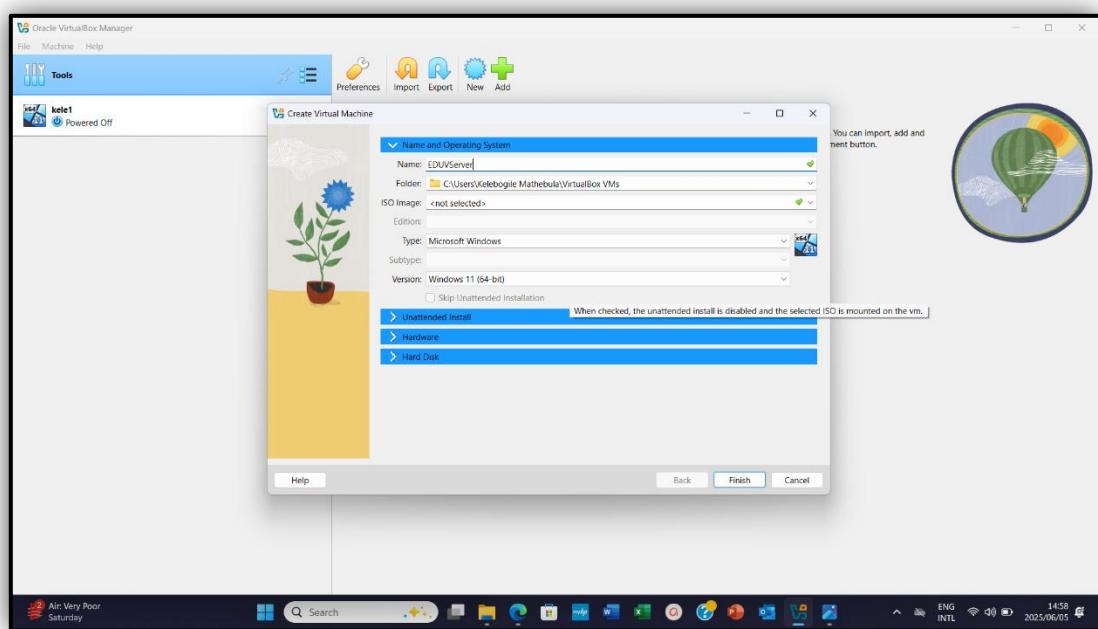
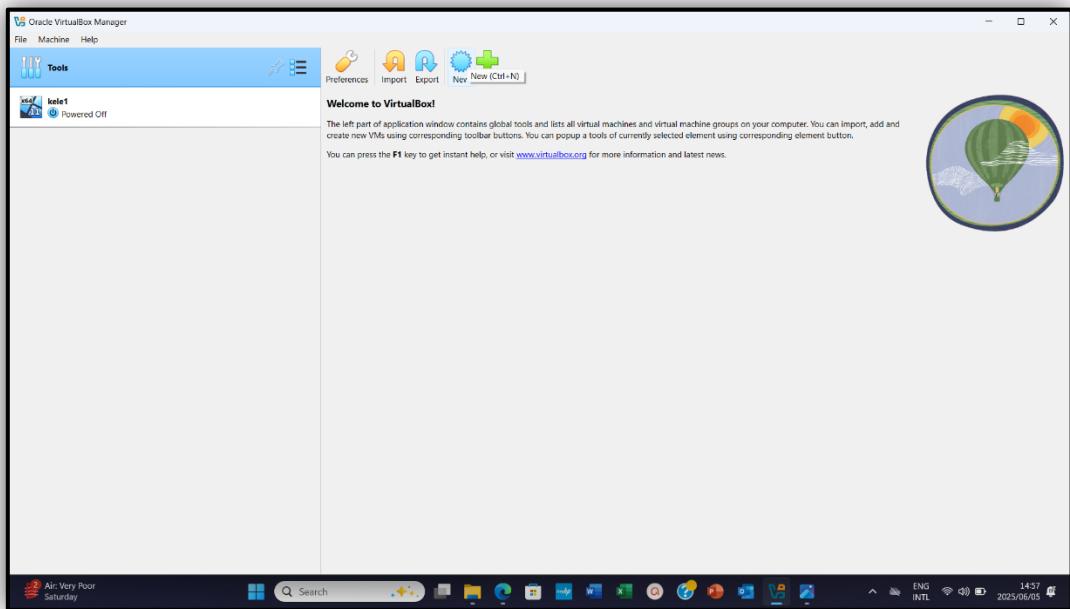
NB: Zoom in to see images clearly!!

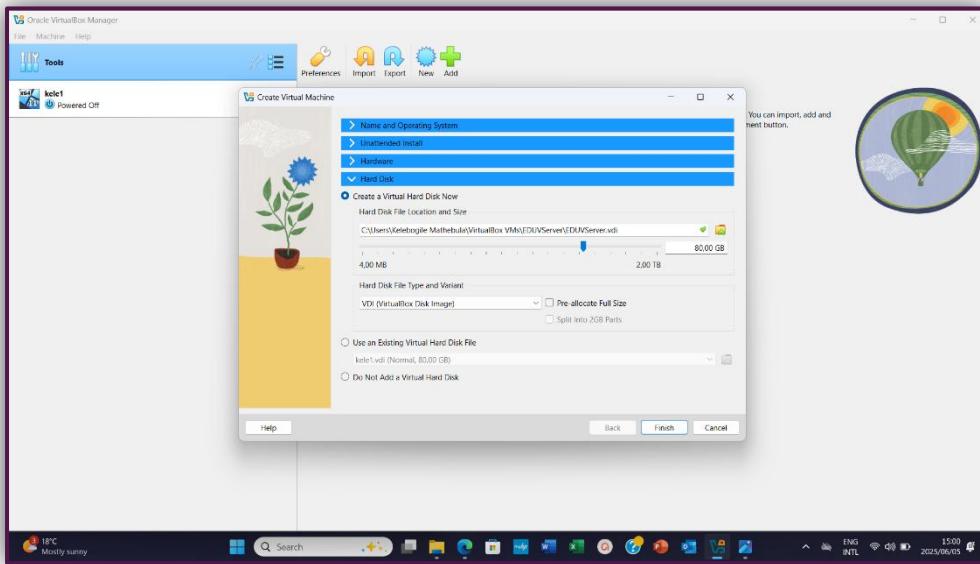
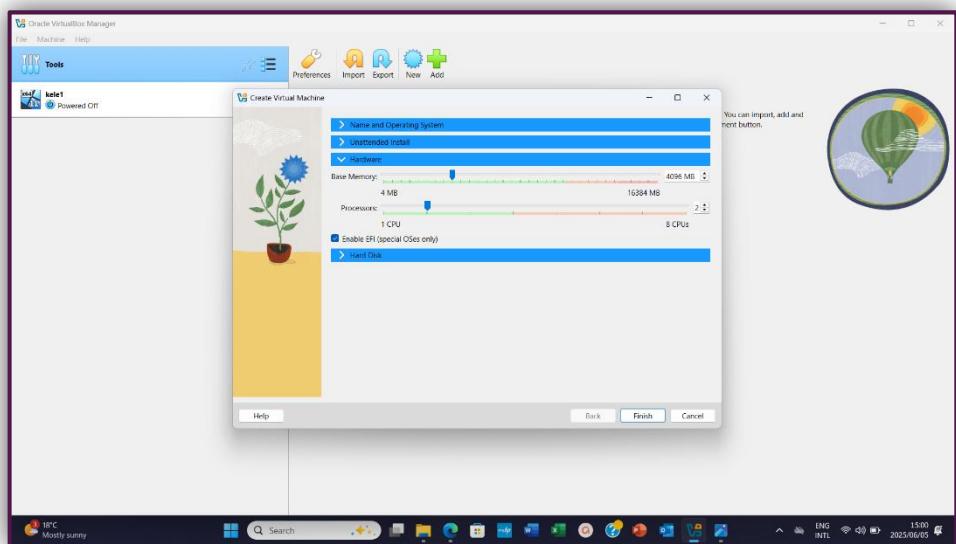
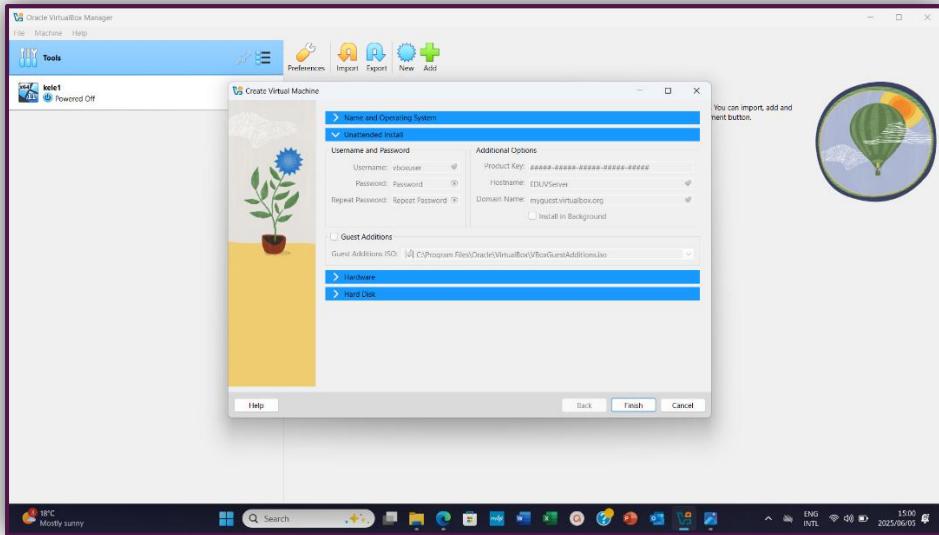
Step 1: The first that I did was to open Oracle VirtualBox.



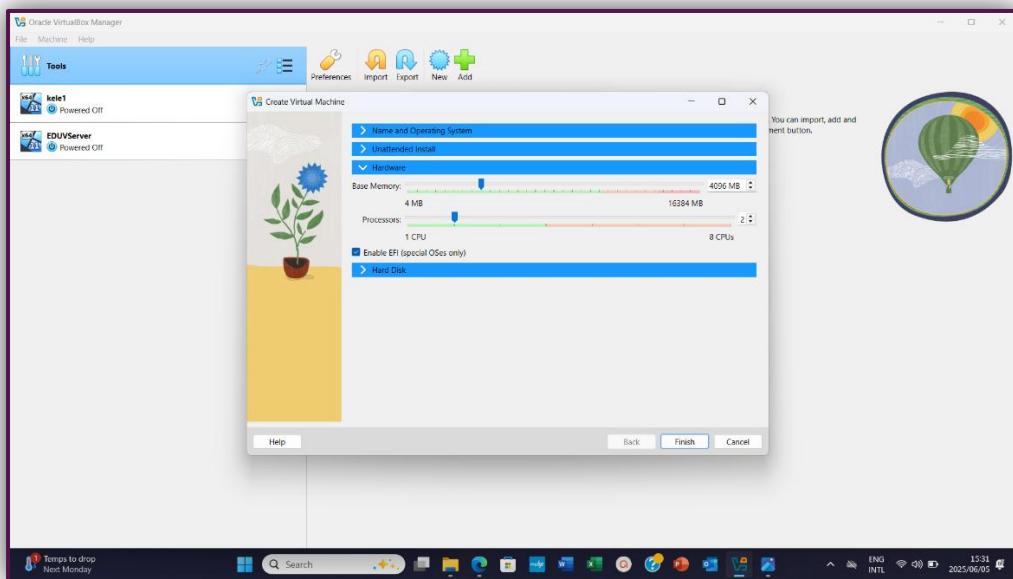
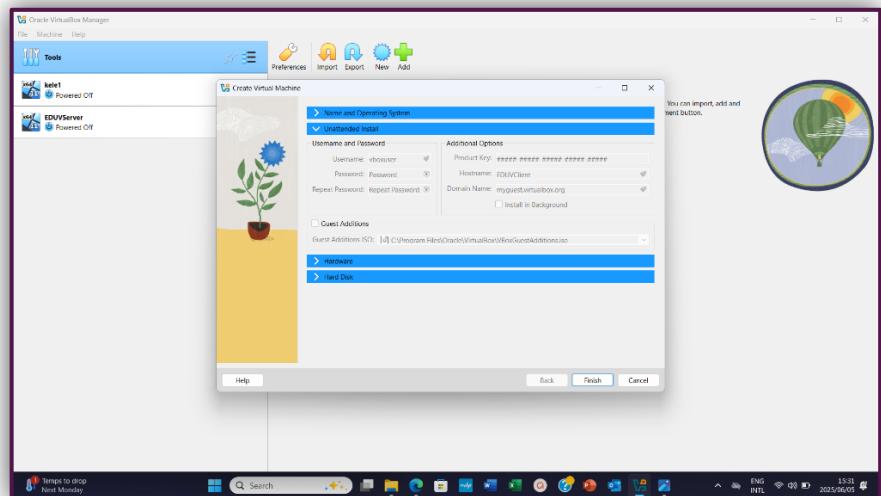
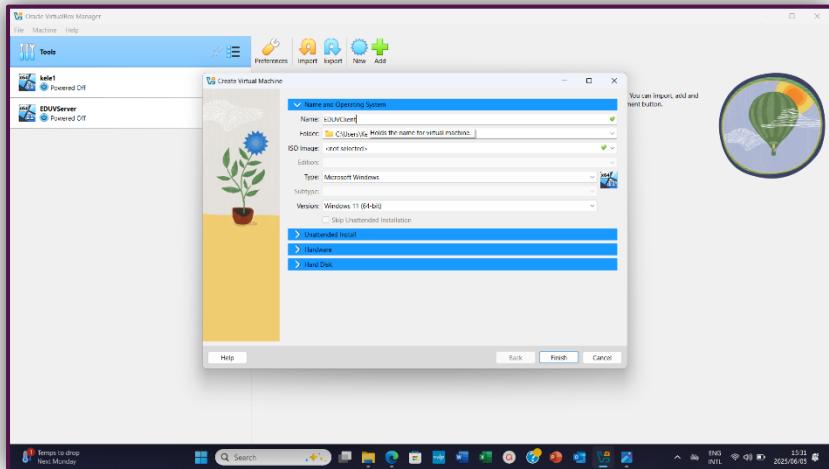
Step 2: This where I set up or created new virtual machines, the Images are explanatory as in they properly show the steps to final VMs.

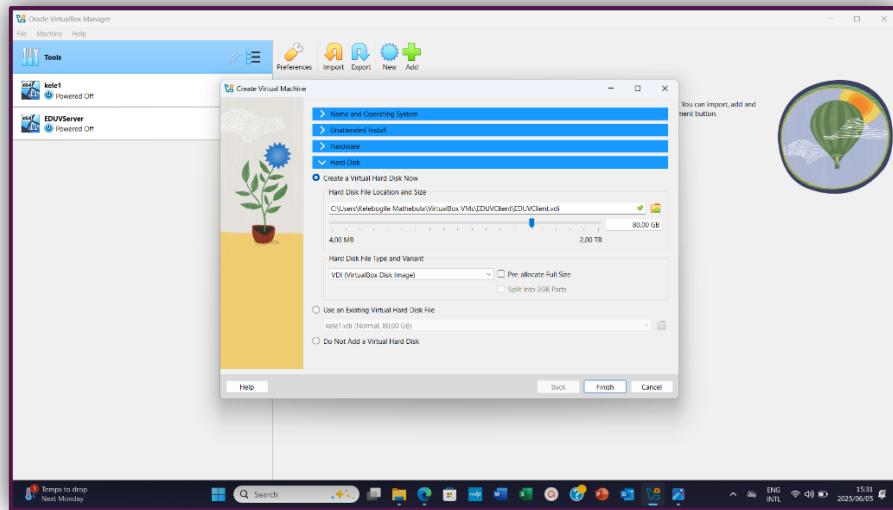
EDUVServer





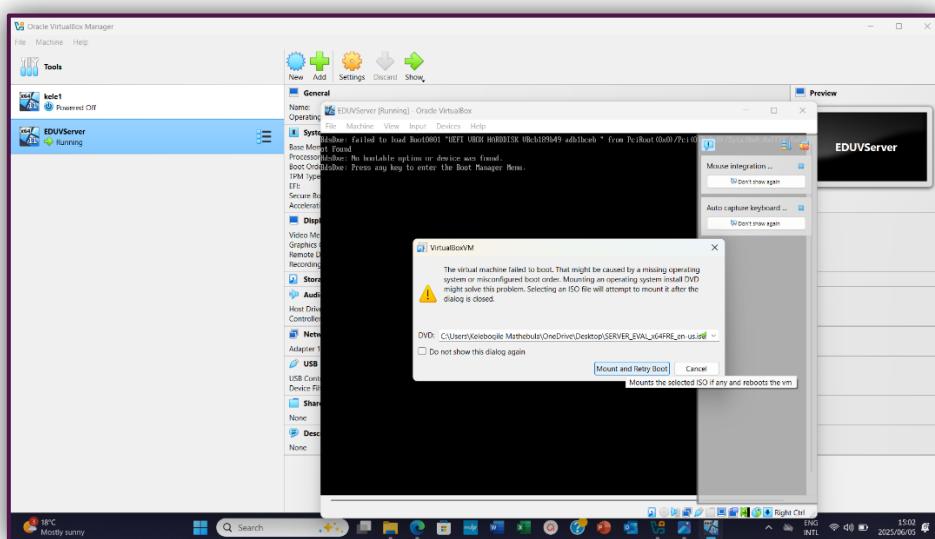
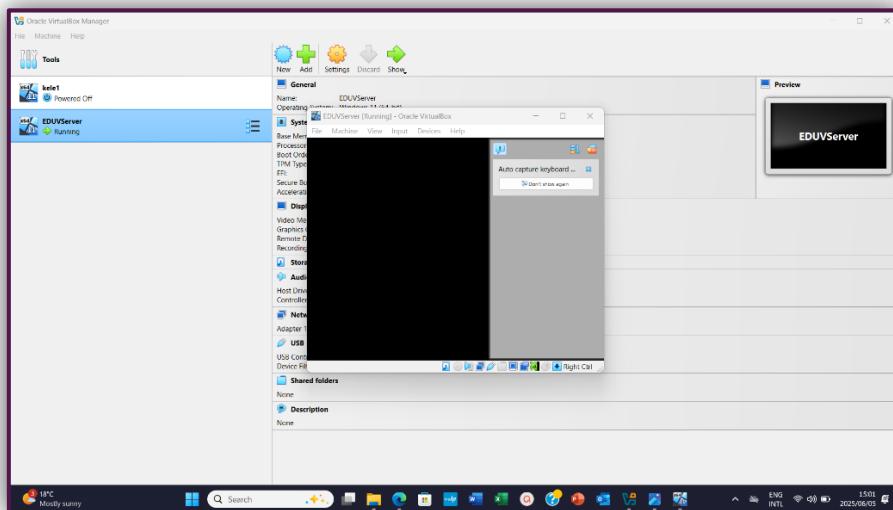
EDUVClient

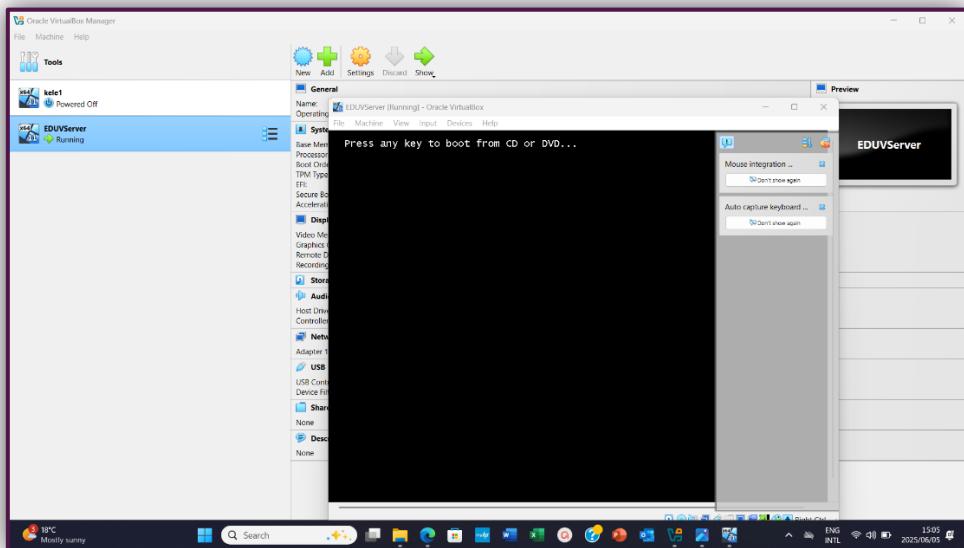




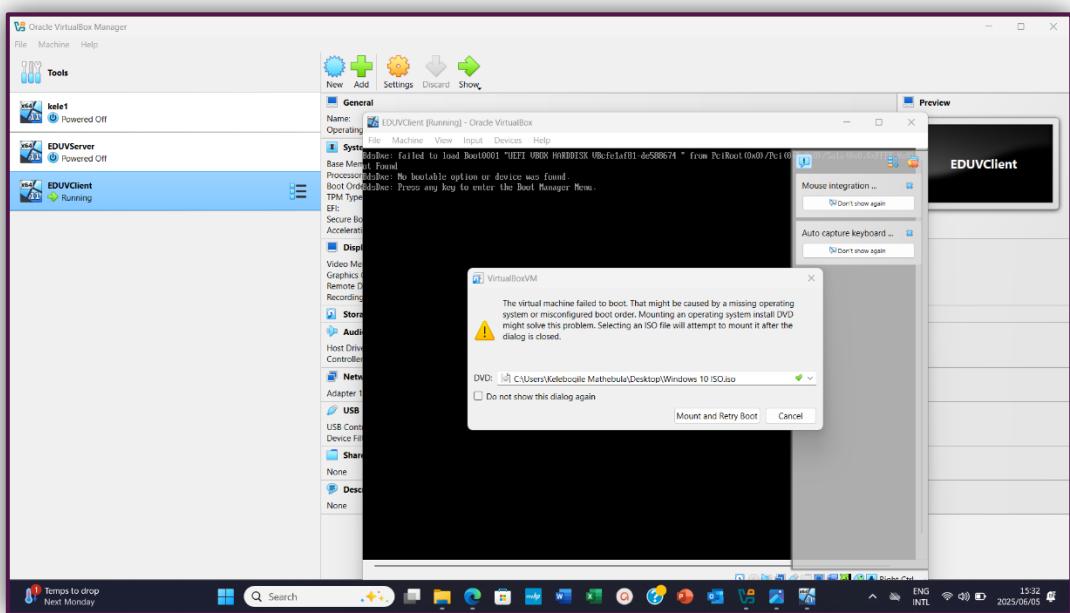
Step 3: This where I added the ISO file(s)/images(s) for the VMs after I start them.

EDUVServer



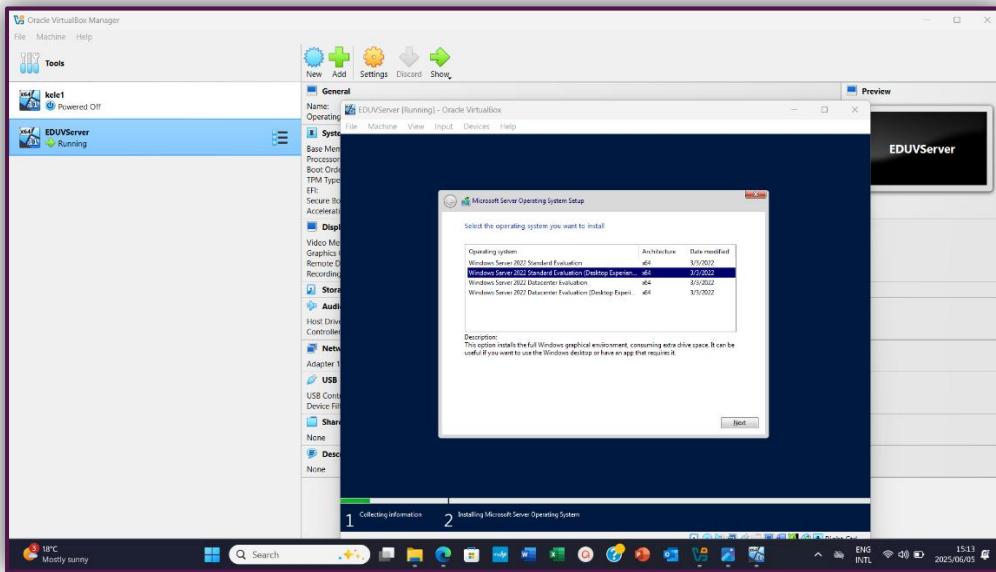
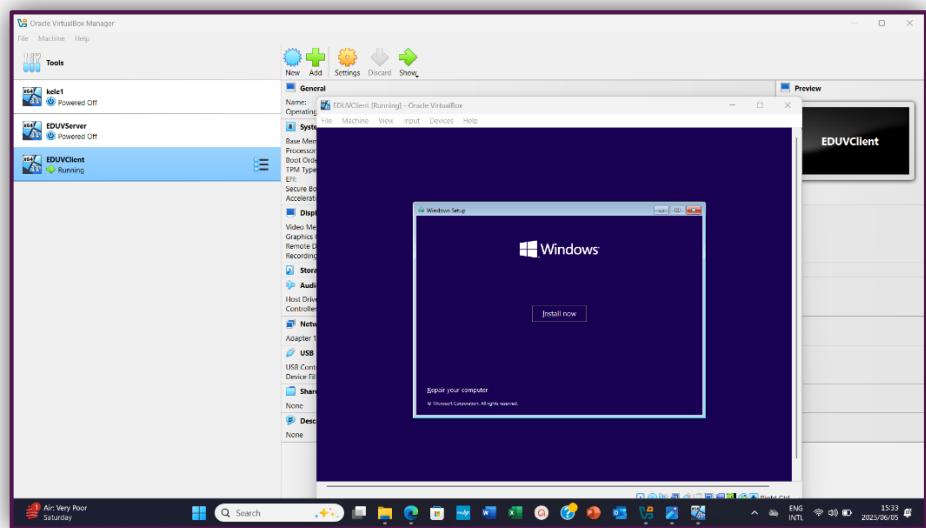
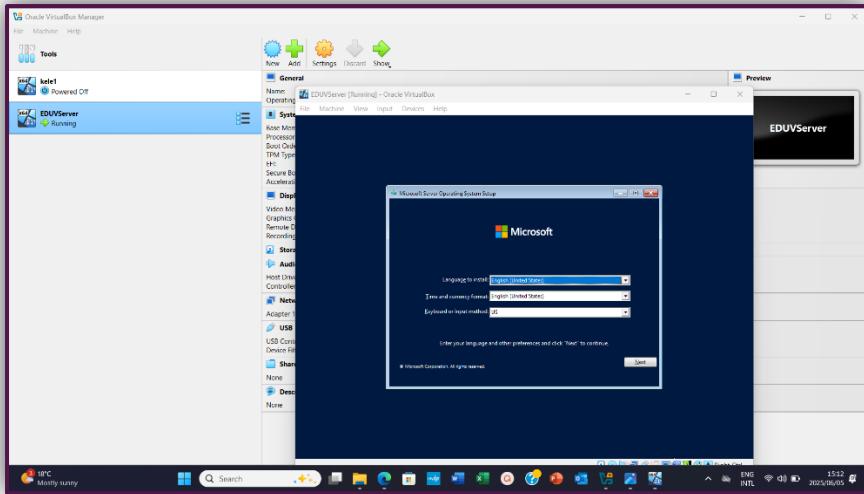


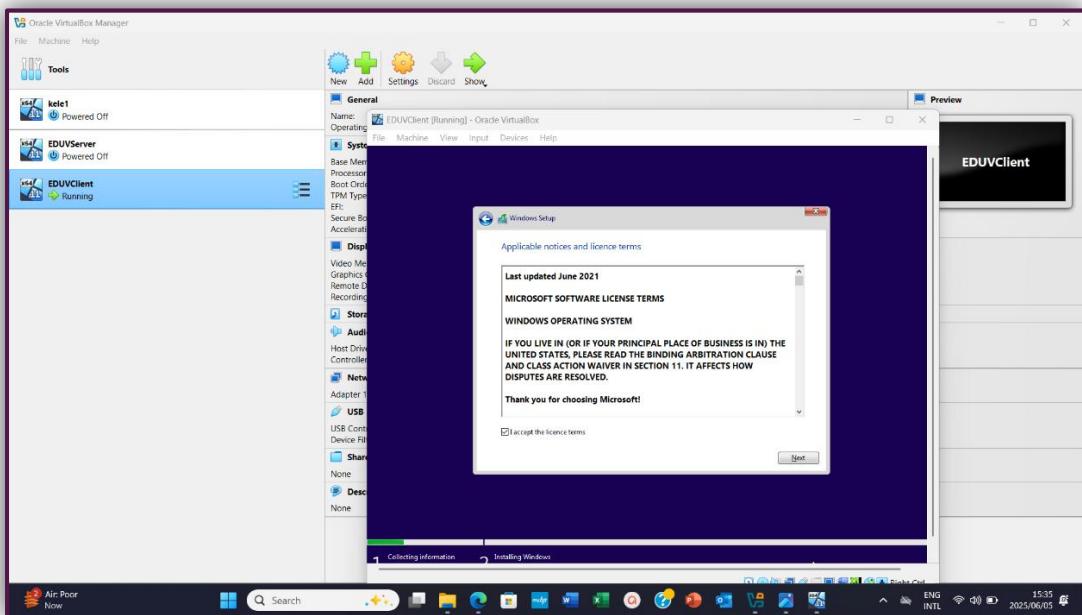
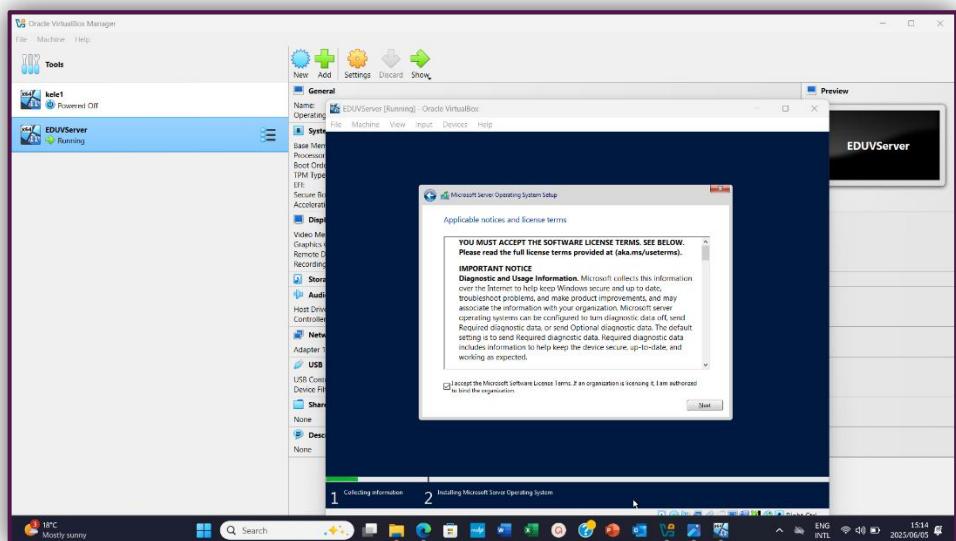
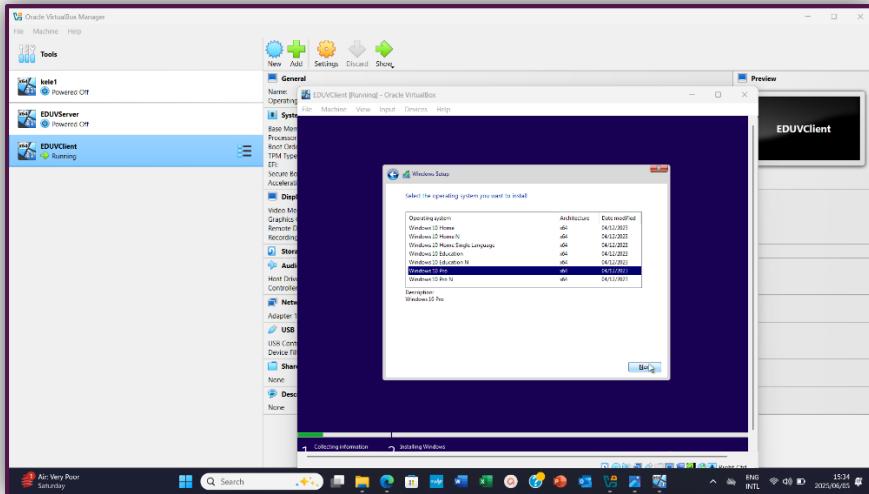
EDUVClient



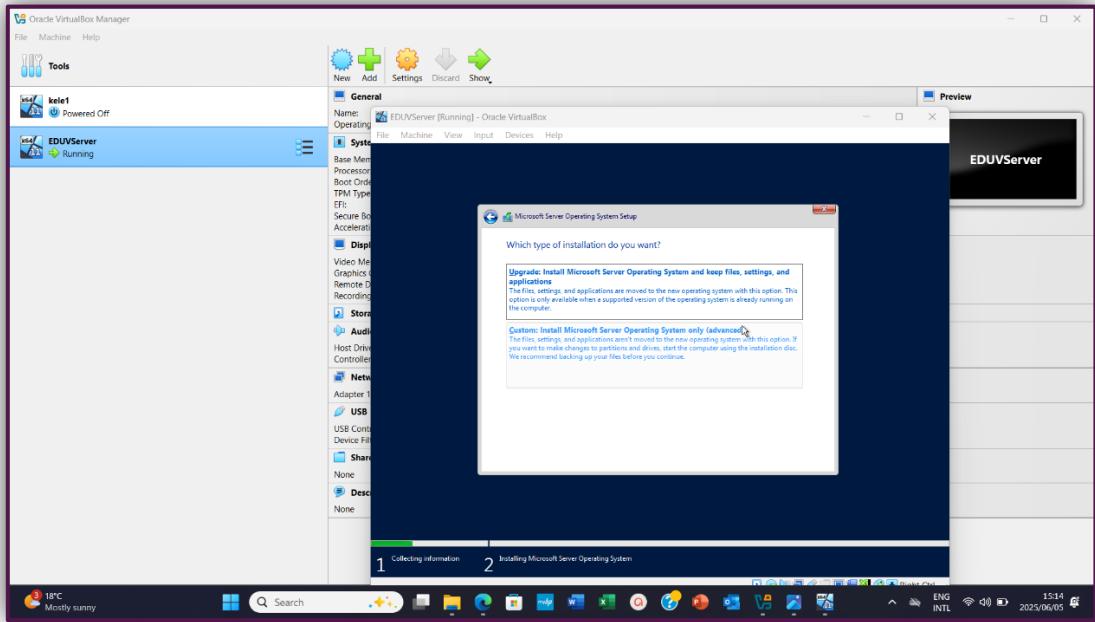
Step 4: After mounting and rebooting there will be a pop up that says “press any key to boot from CD or DVD...”, after pressing that key the process will be the same for both machines, which includes installing the OS, it also leads to the sign in phase.

NB: The images will be mixed to show that the process is the same for both VMs.

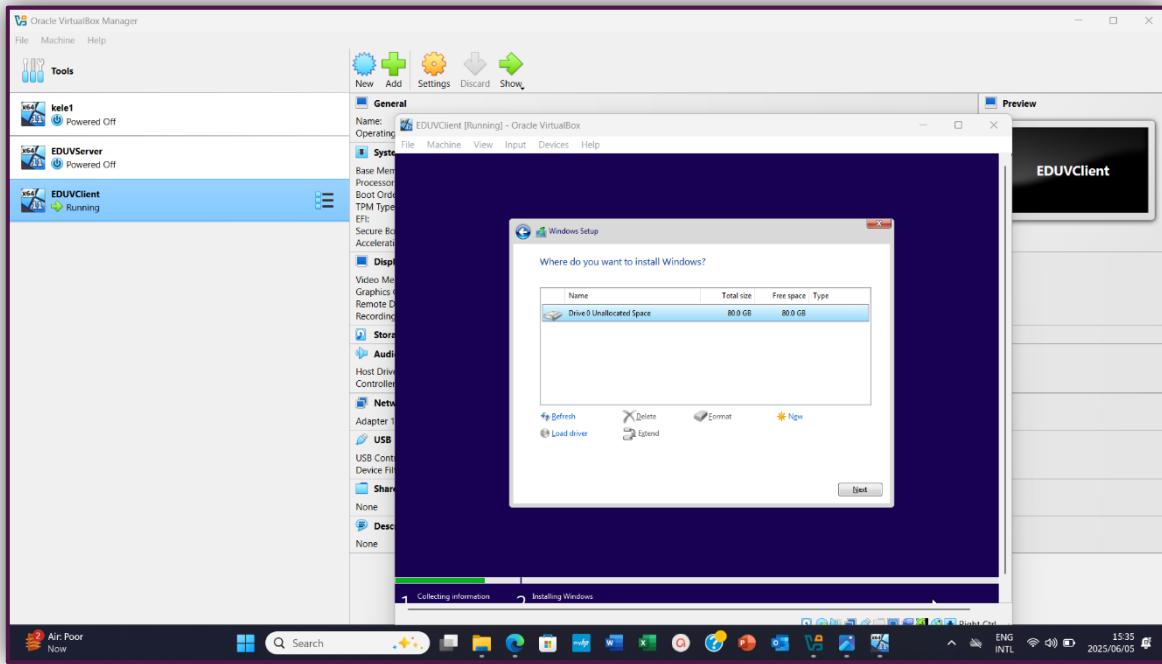




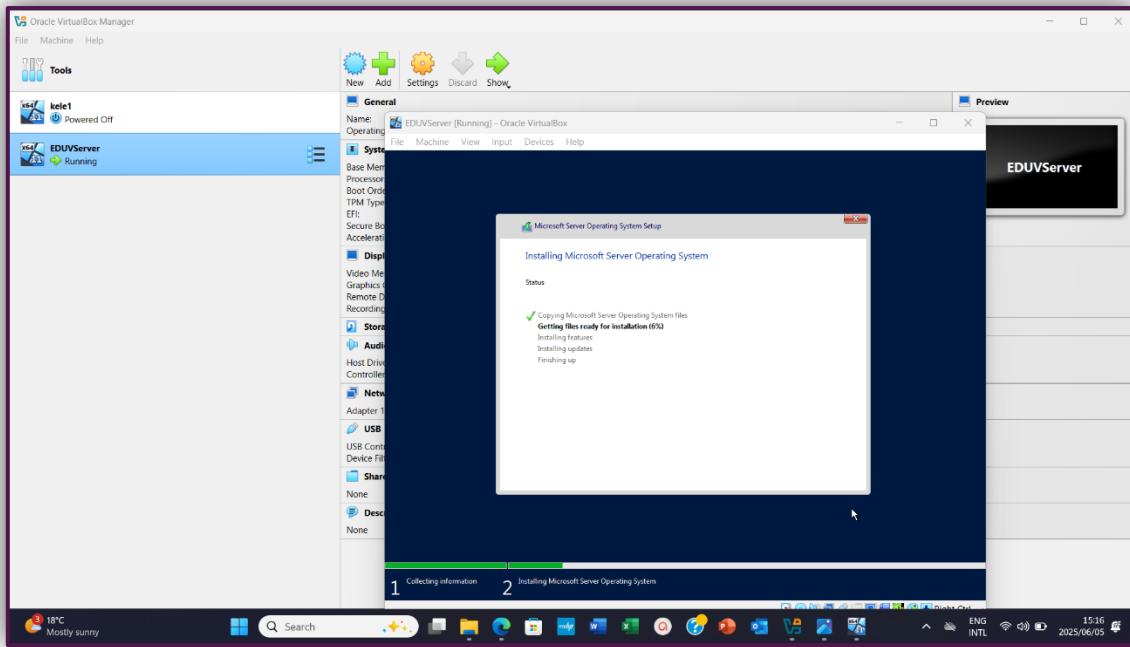
This where you choose custom for both VMs



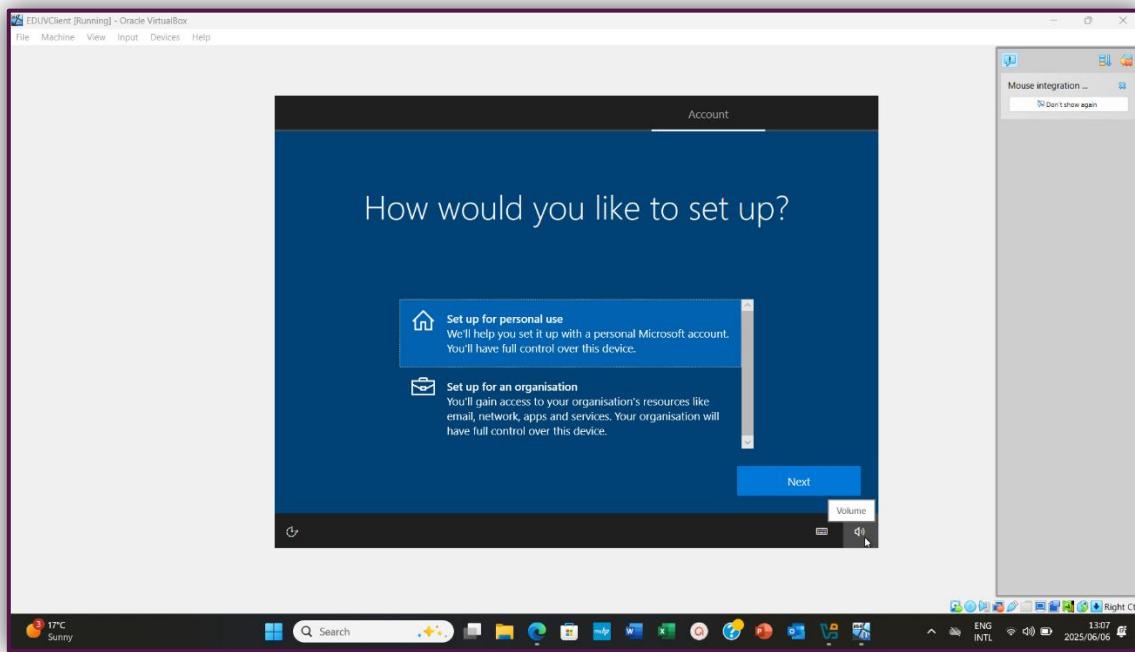
The following part will also be the same for the EDUVServer, it will show the hard disk whereby the Operating System will be installed.

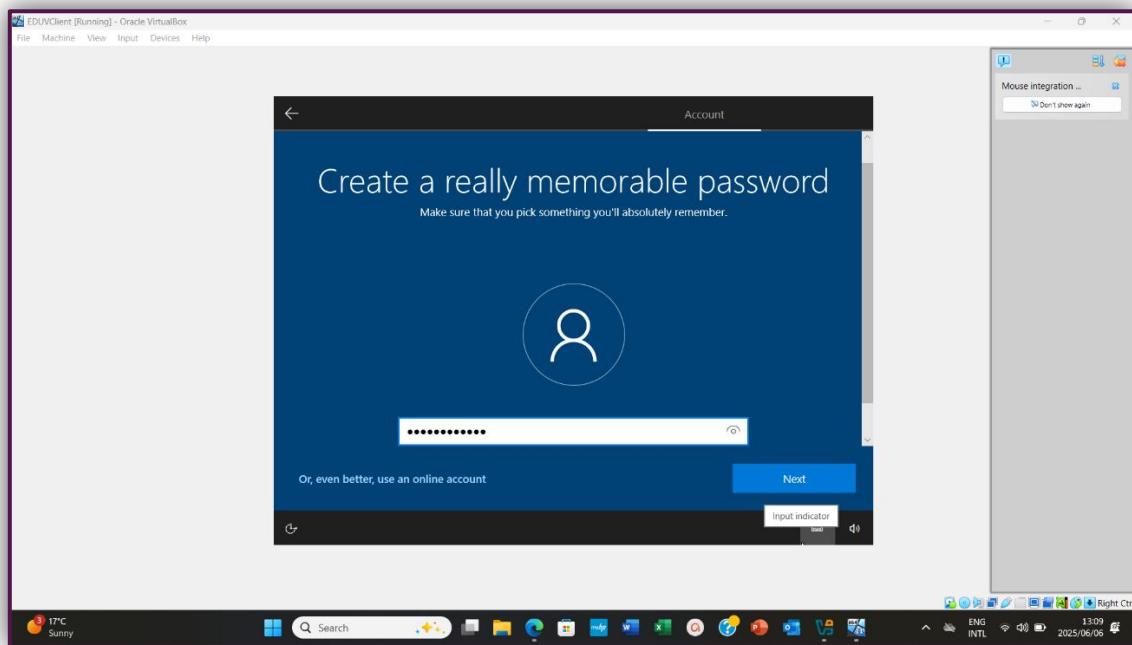
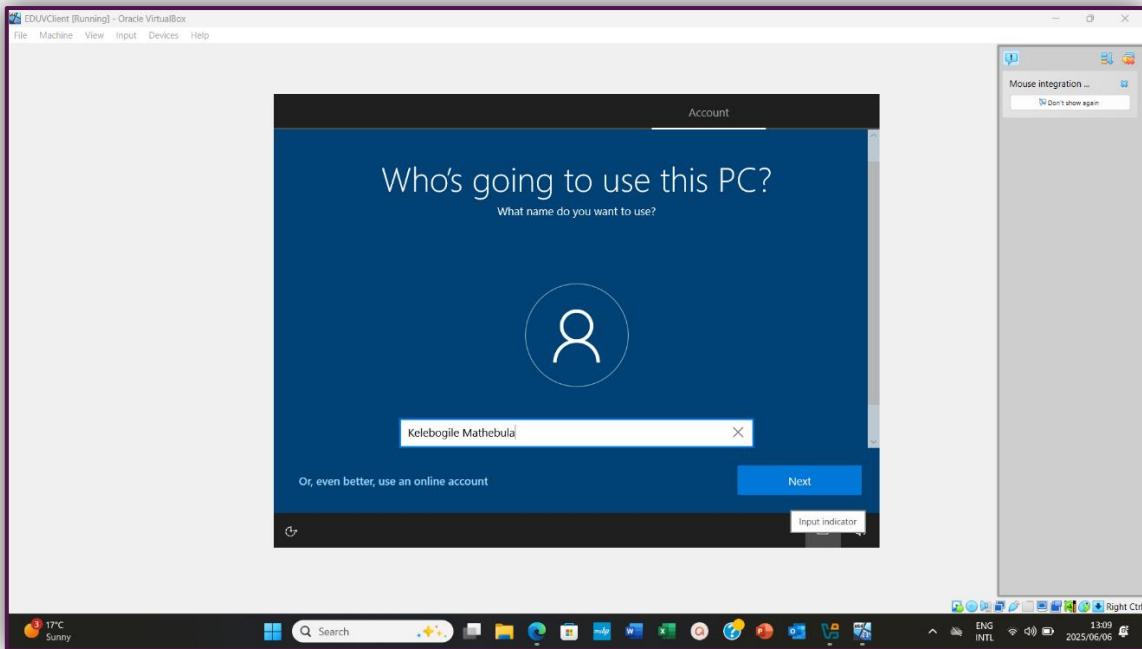


The following process will also be the same for the EDUVClient, Windows 10 will be installing.



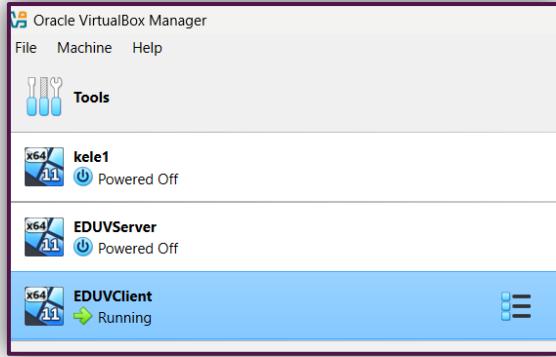
After this part, the EDUVServer will require an administrator password which finally leads you the sign in page of your server and the EDUVClient is going to ask for a primary key, I chose the option “I do not have a primary key”, the EDUVClient will then want you set your computer up-the images below show the setting up the client machine.



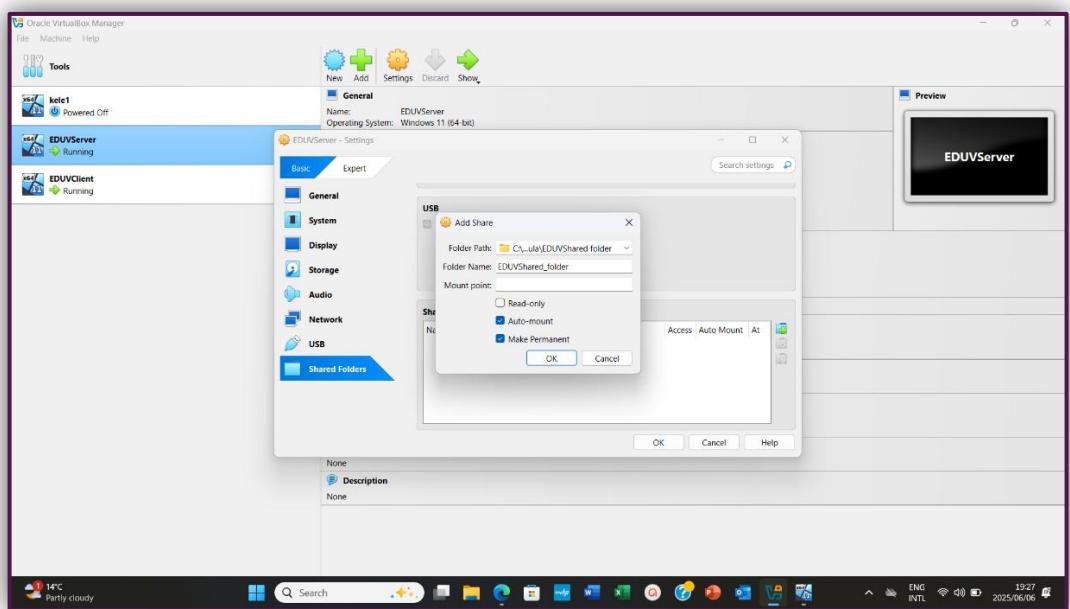
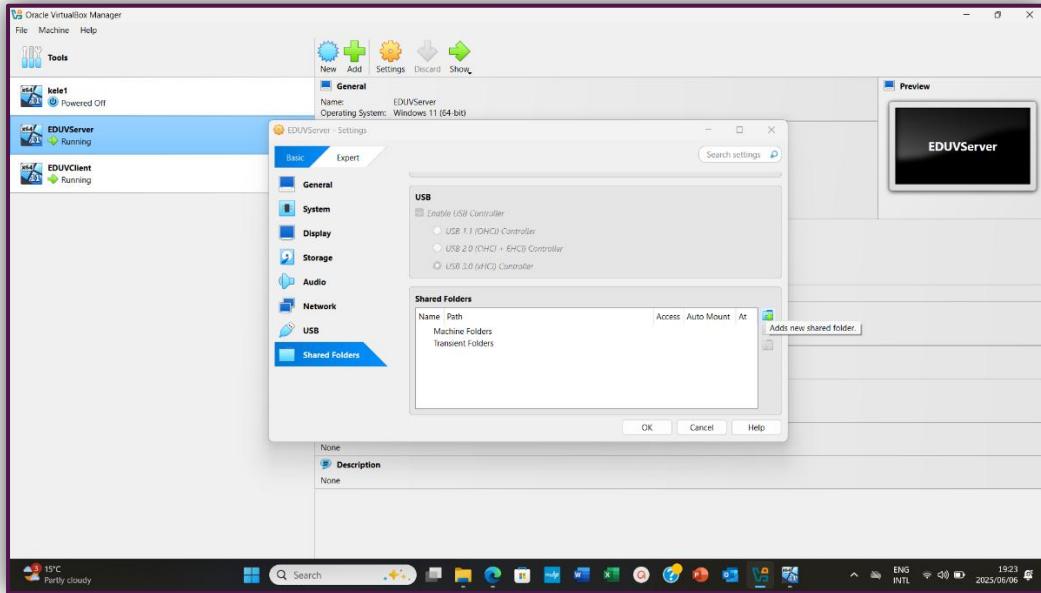


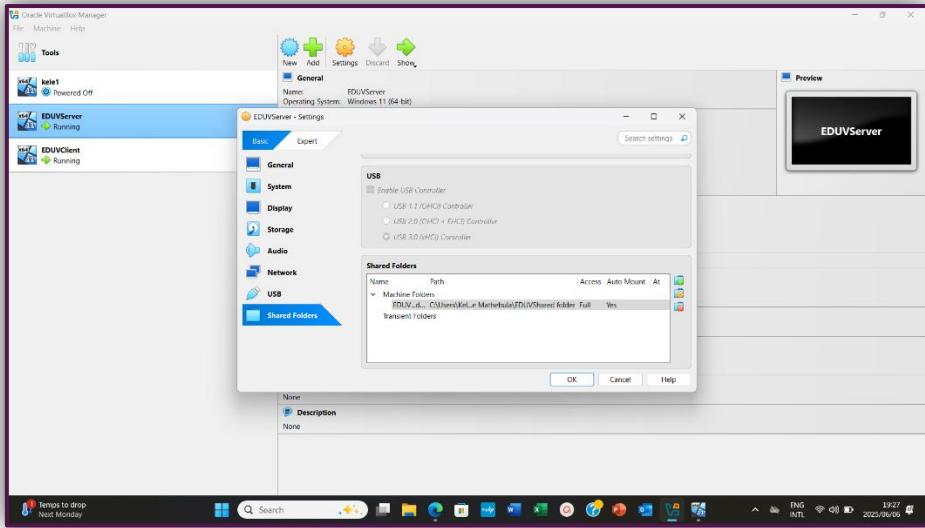
The set up will then need you to answer security questions, after the questions you will then need to choose privacy settings for your device, which then also leads you to the sign in page of your client machine.

The following is an image of the VMs I created.

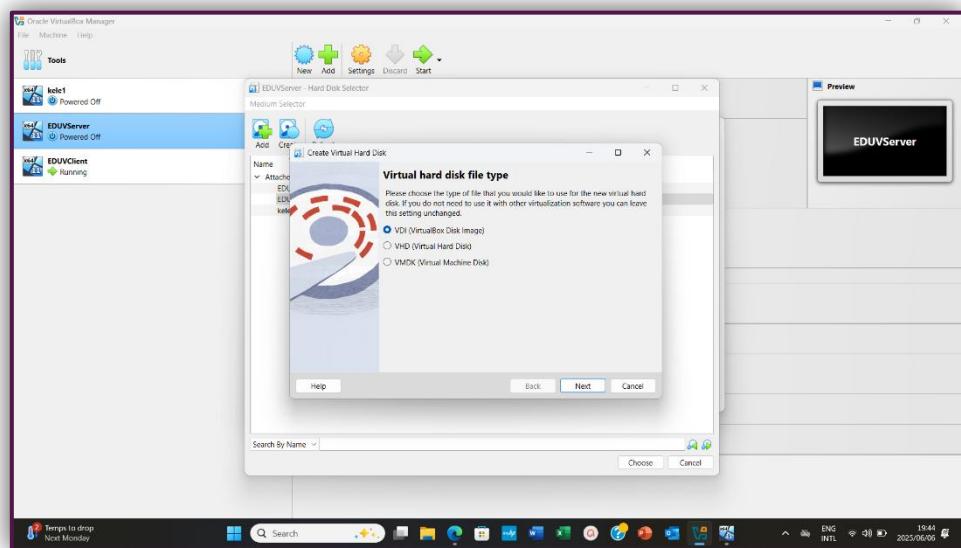
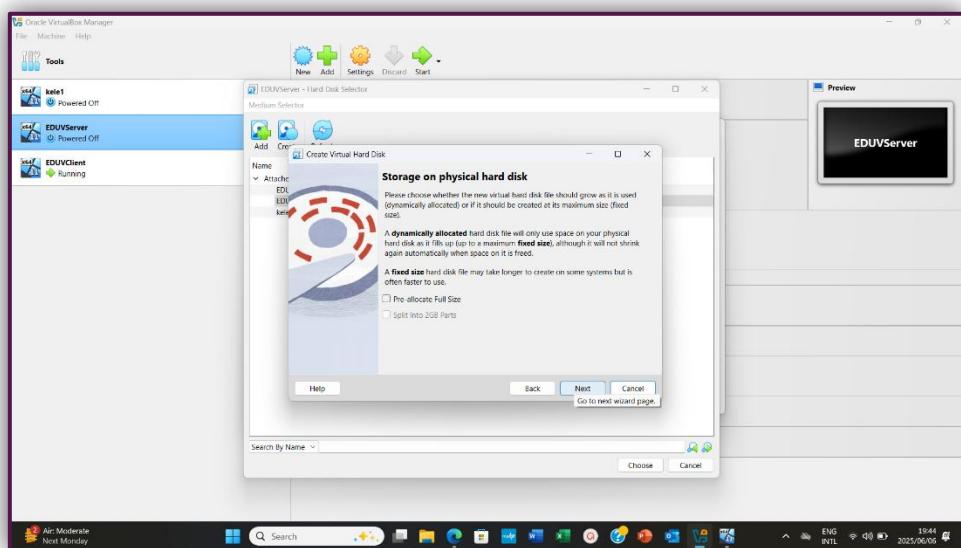


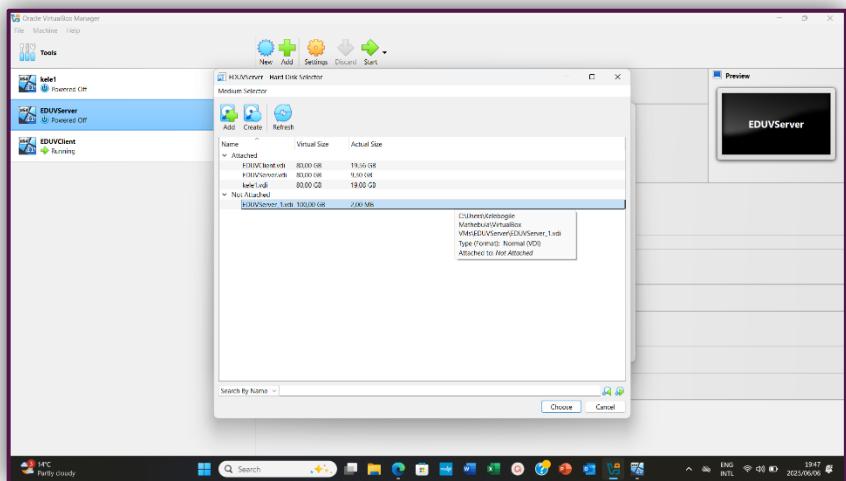
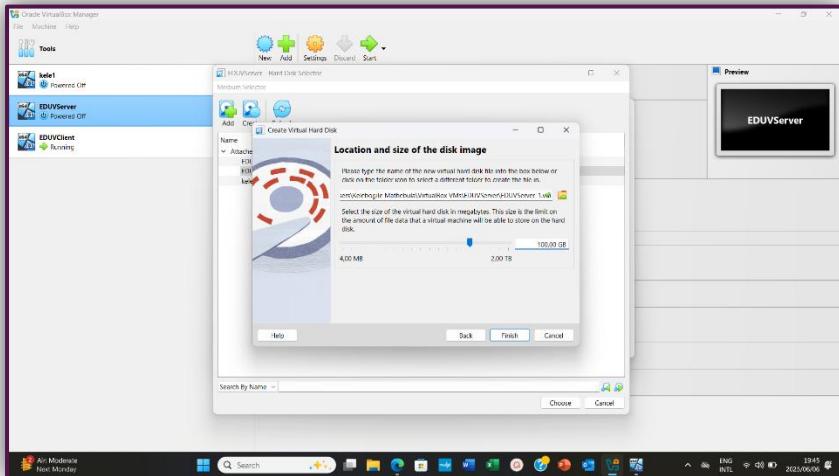
Step 5: This is where I created a shared folder, as well as a virtual hard disk.



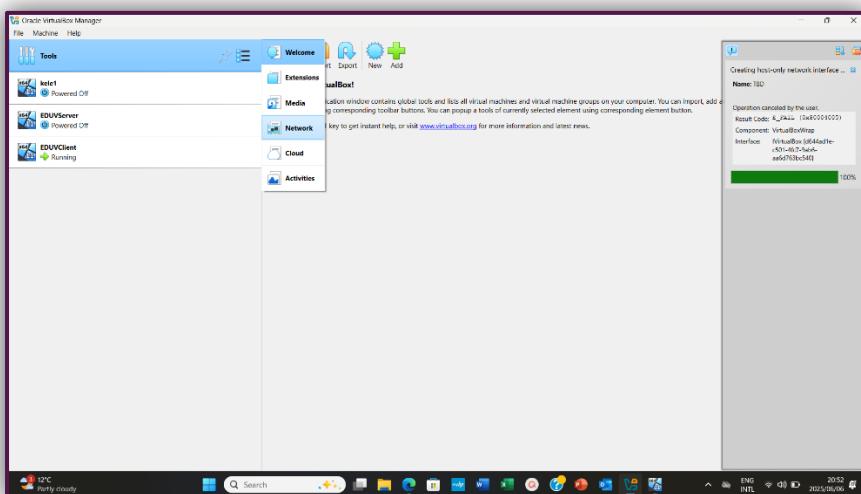


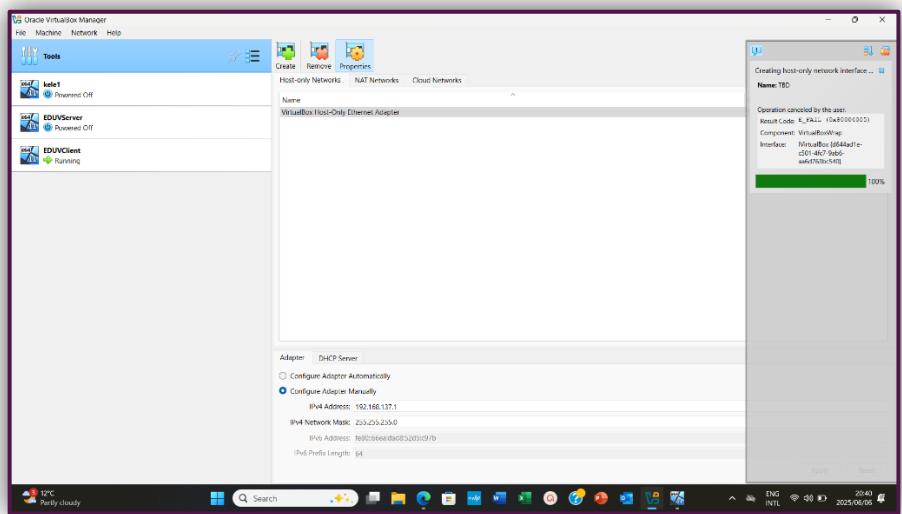
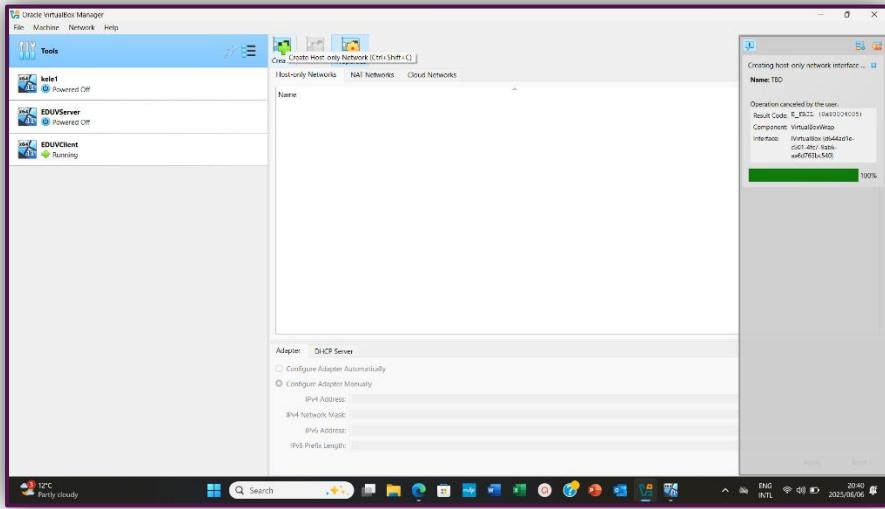
The following is the virtual hard disk setup.



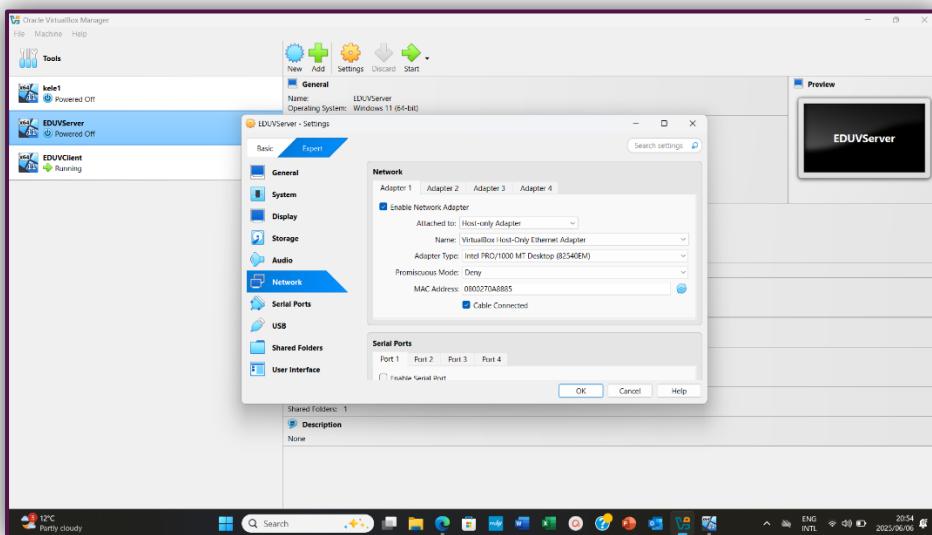


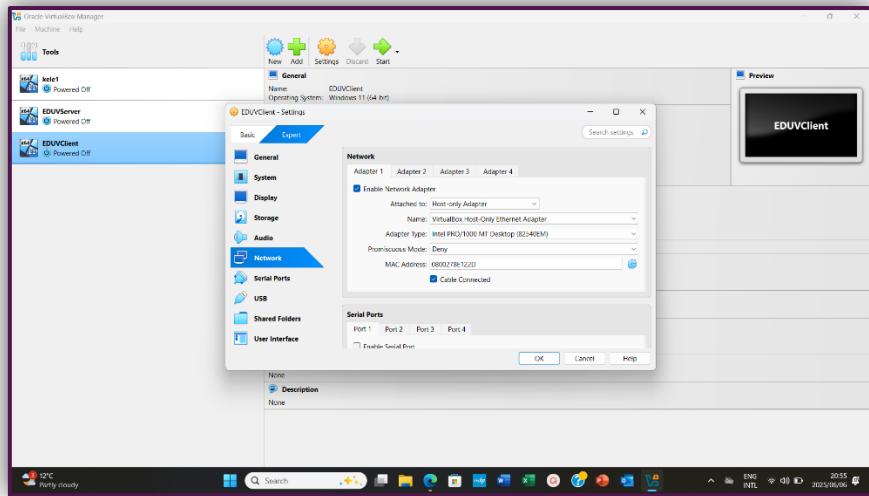
Step 6: I then created a virtual switch and connected it to the EDUVServer and the EDUVCClient so that they are connected meaning they are on the same network which then allows the two VMs to communicate.



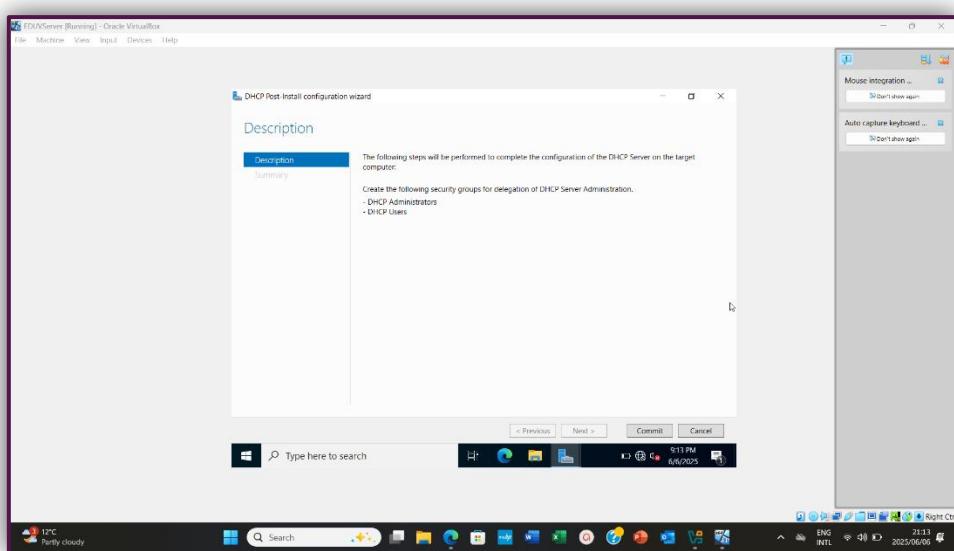
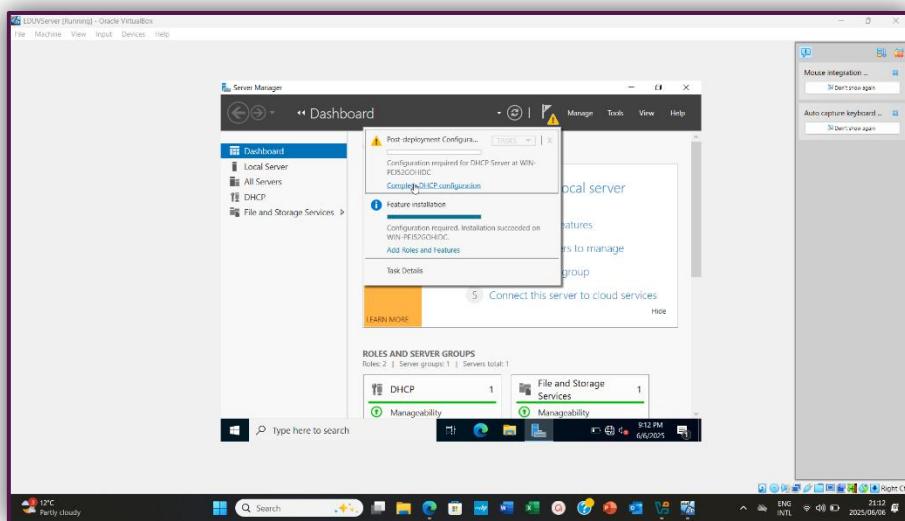


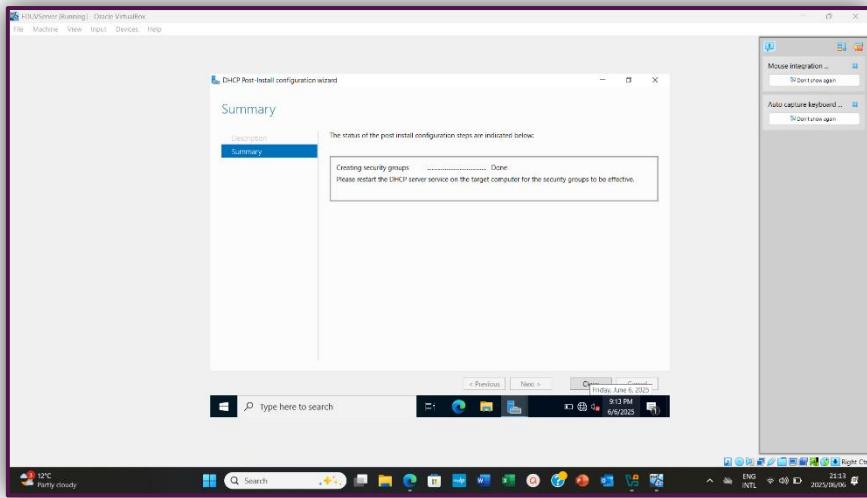
I then connected the VMs to the switch.



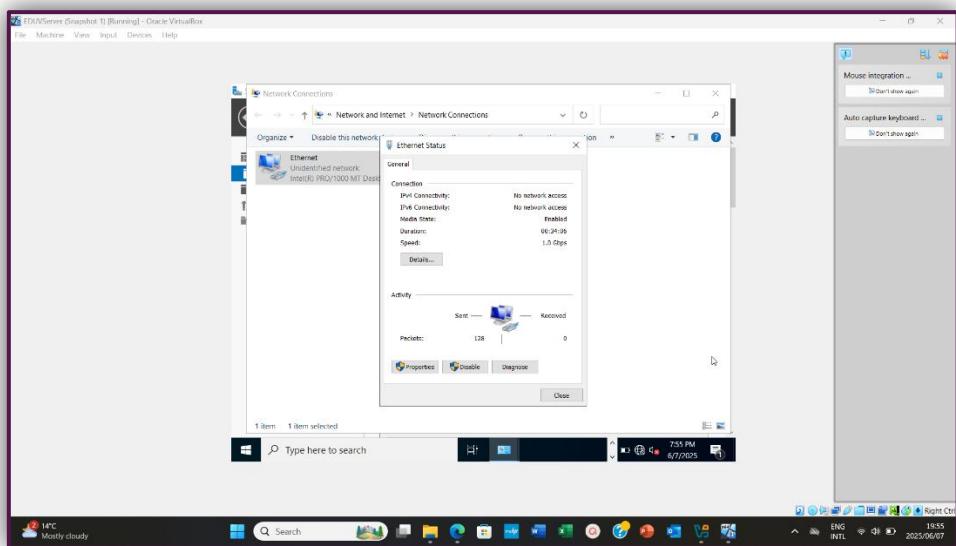
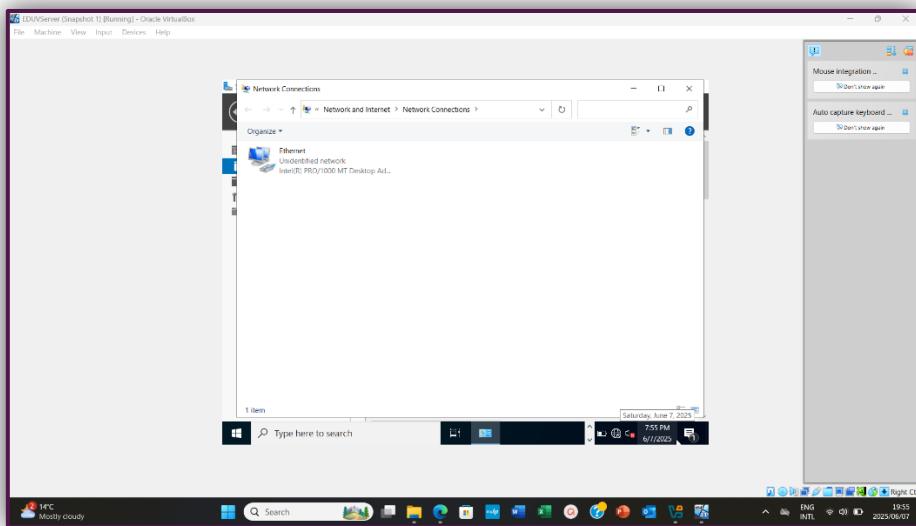


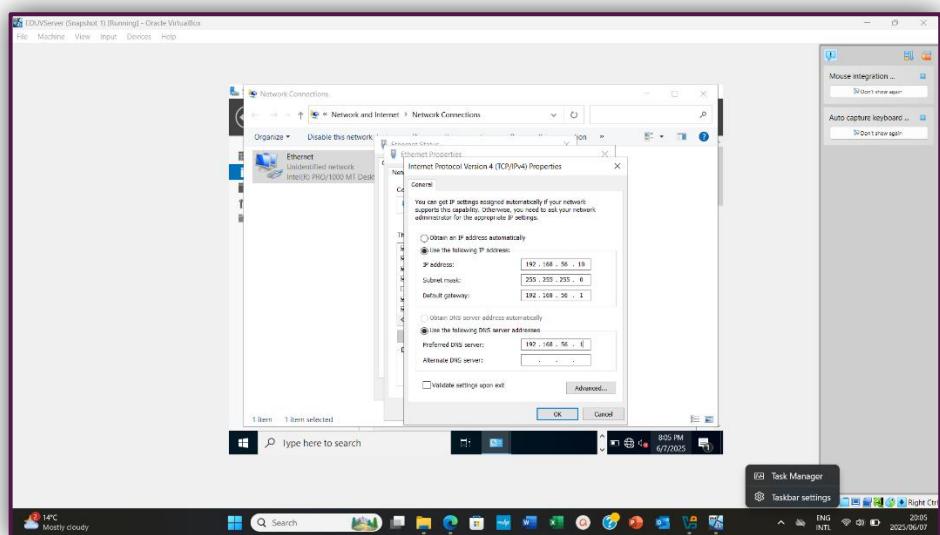
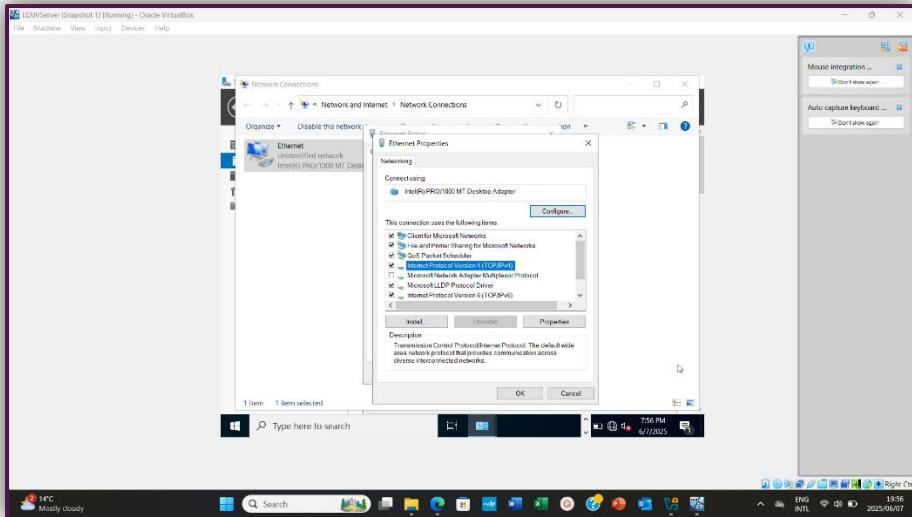
Step 7: I then added a DHCP Server role/feature and configured it, the following images show the DHCP configuration.



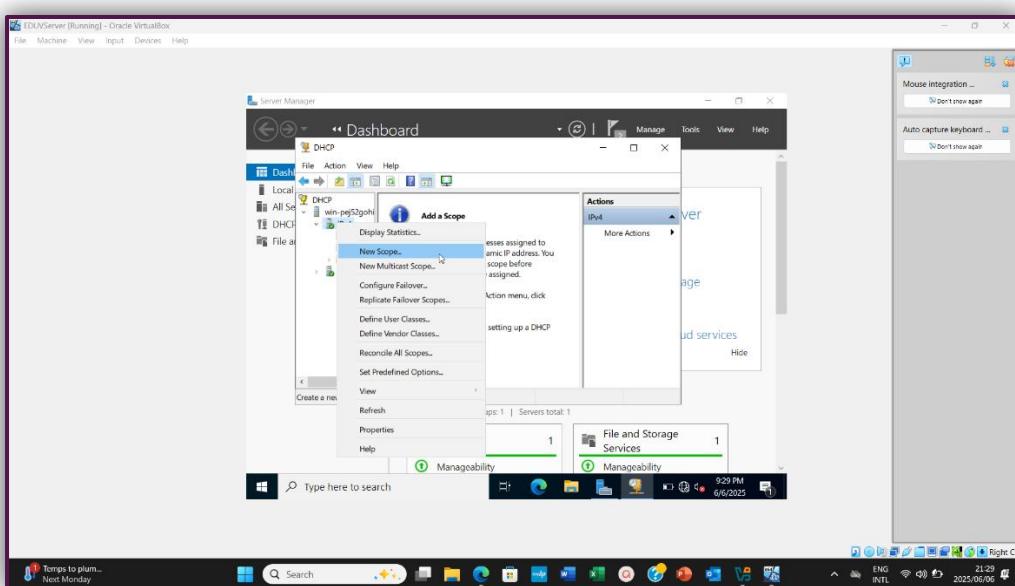


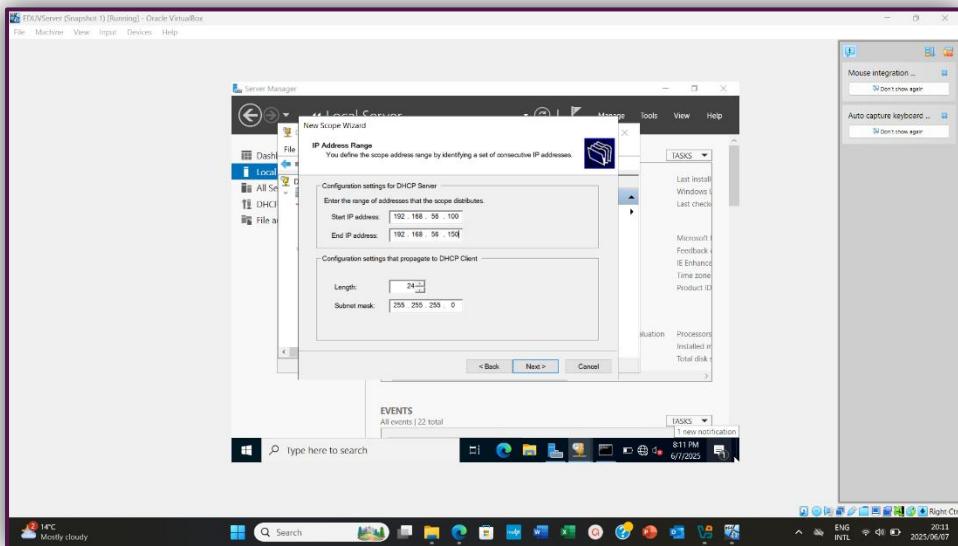
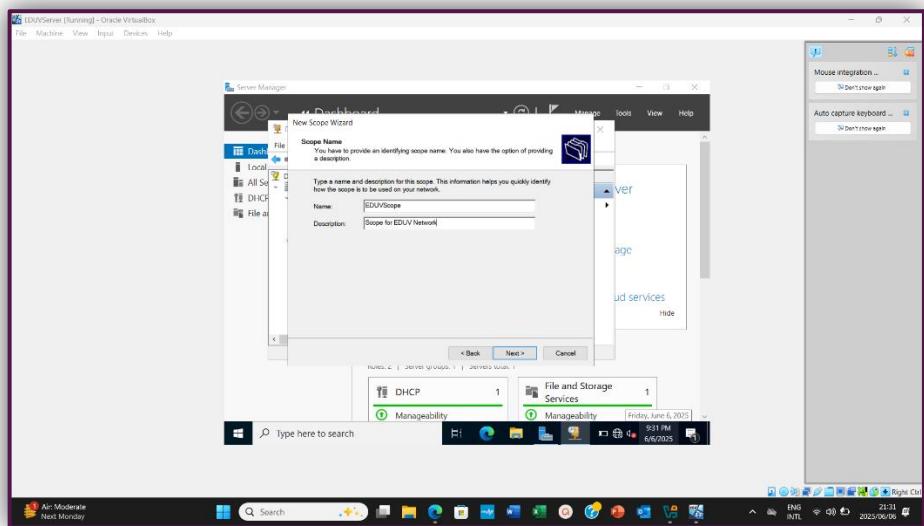
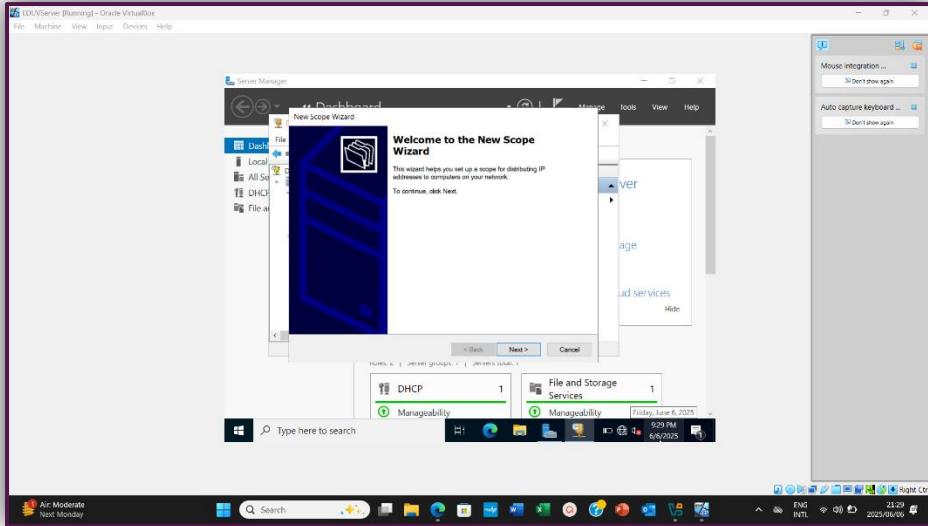
Step 8: This is where I added a scope for IPv4, but I assigned a static IP address first before I added the scope. (TeachTech, 2024)

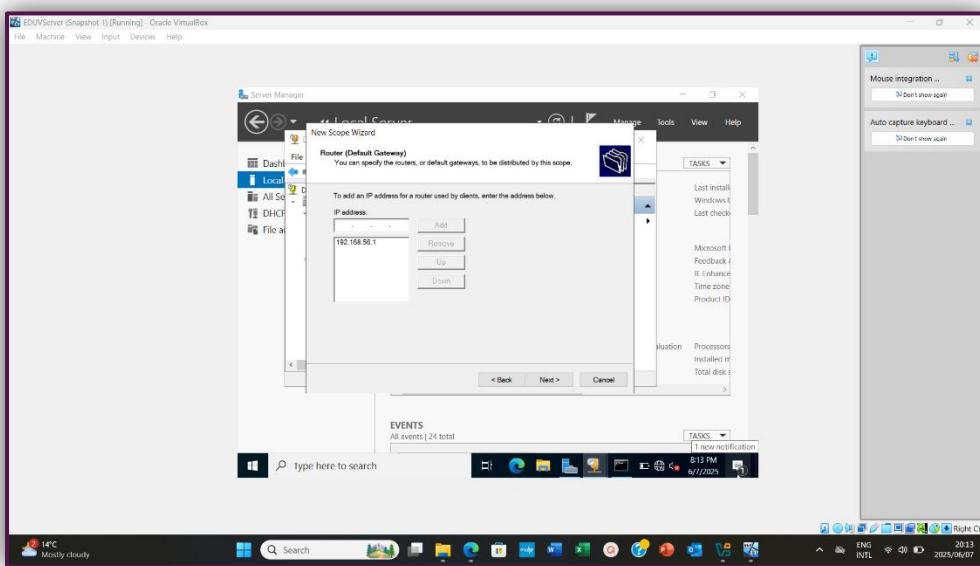
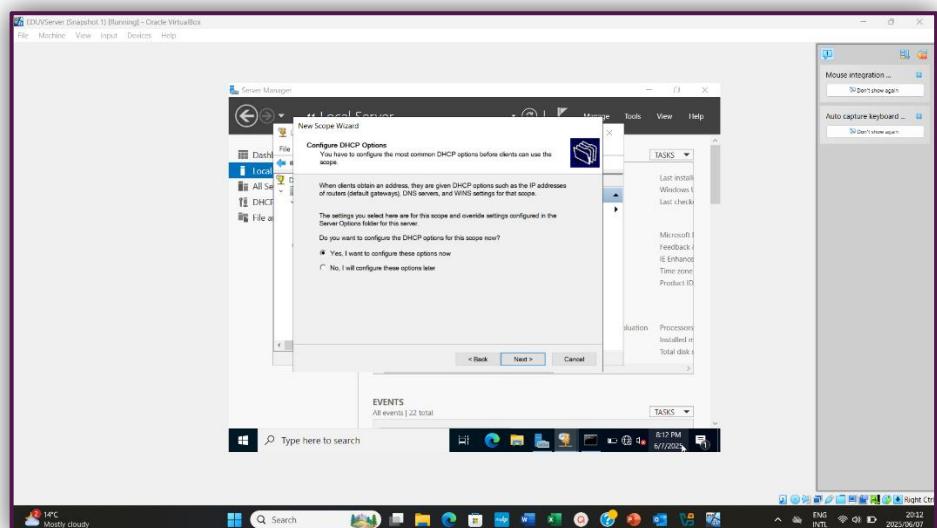
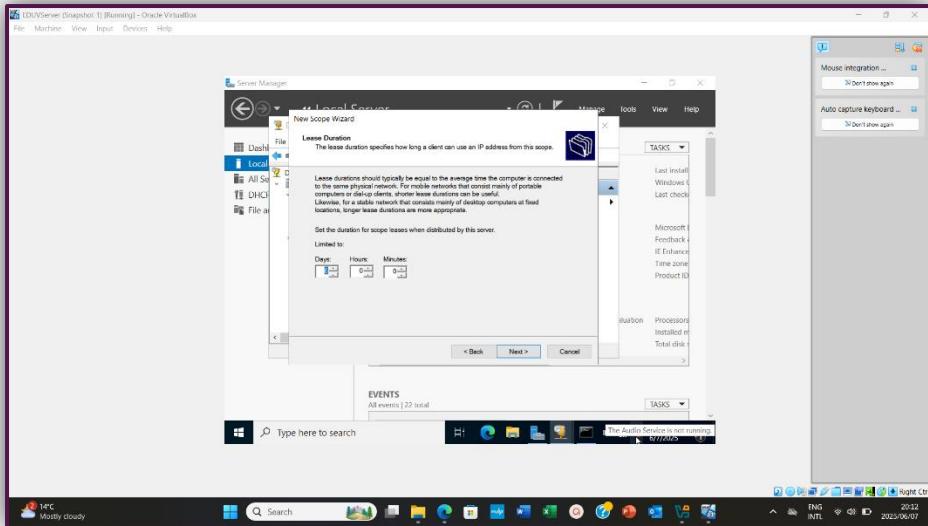


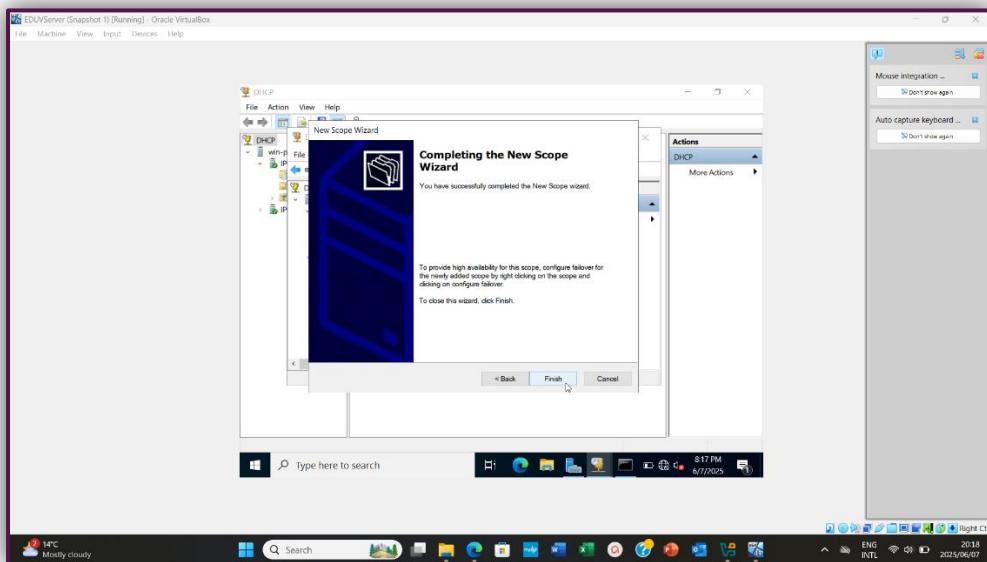
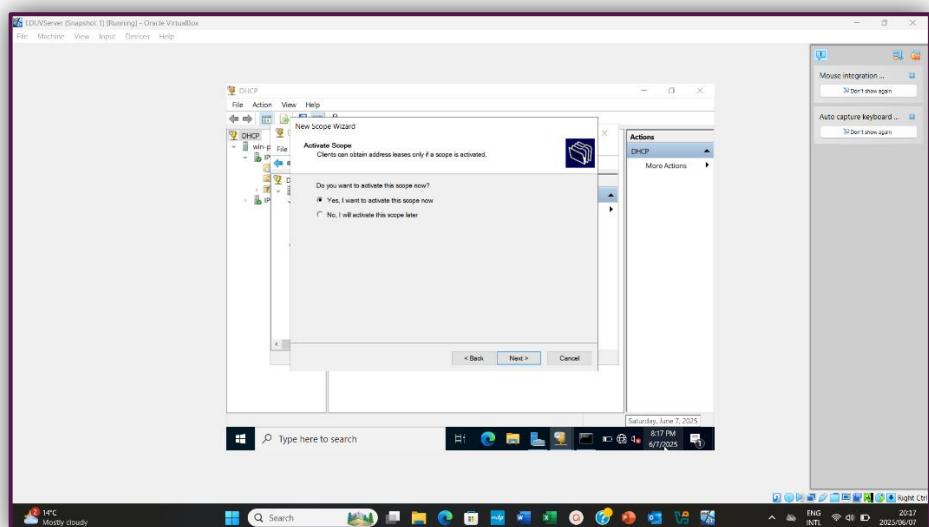
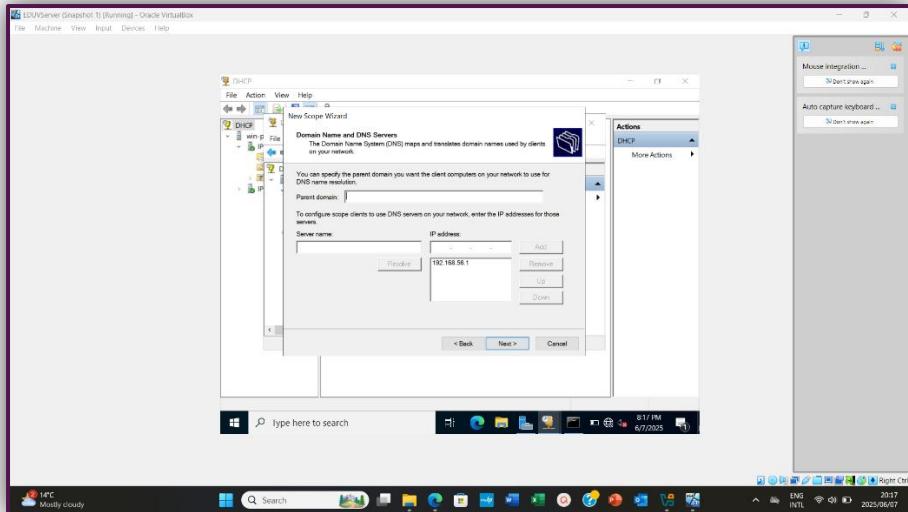


After that I then set the DHCP IPv4 scope. (WebCast, 2019)

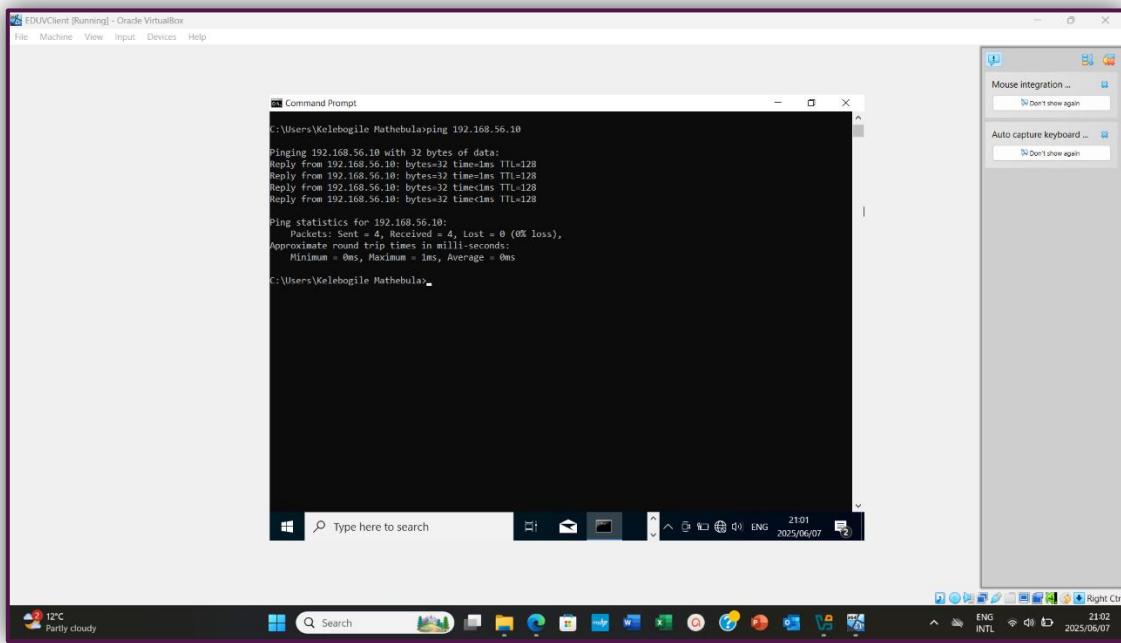
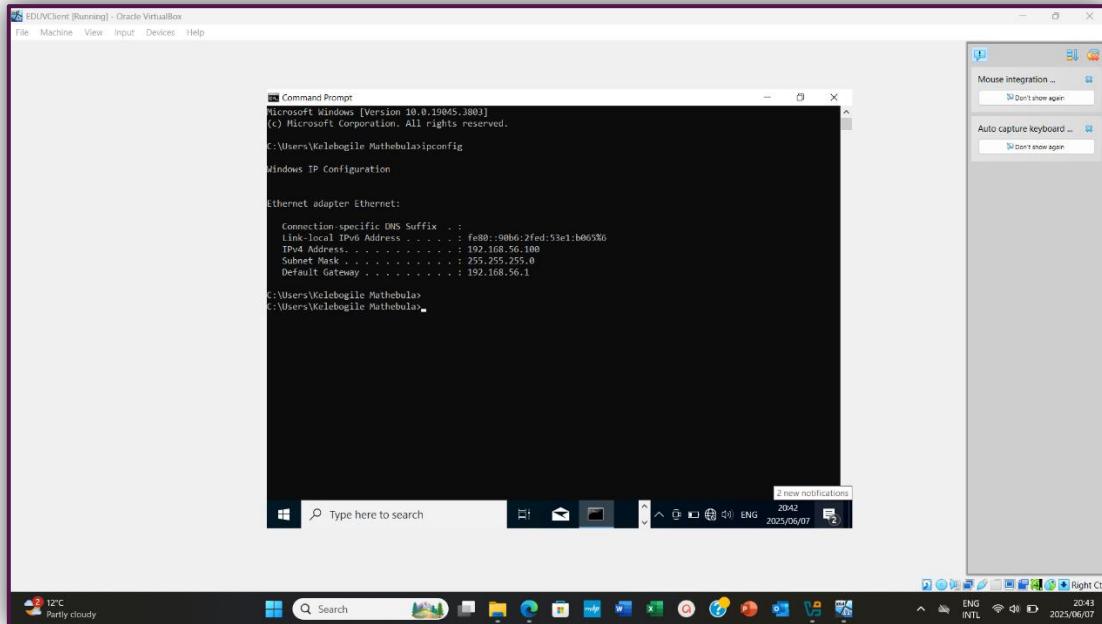








Step 9: After setting the scope I opened my EDUVCClient which is the client machine to try and ping it to the server which is EDUVServer to see if they are on the same network and if they are able to communicate with one another, I did that by using the command prompt. (SearchingNew, 2020)



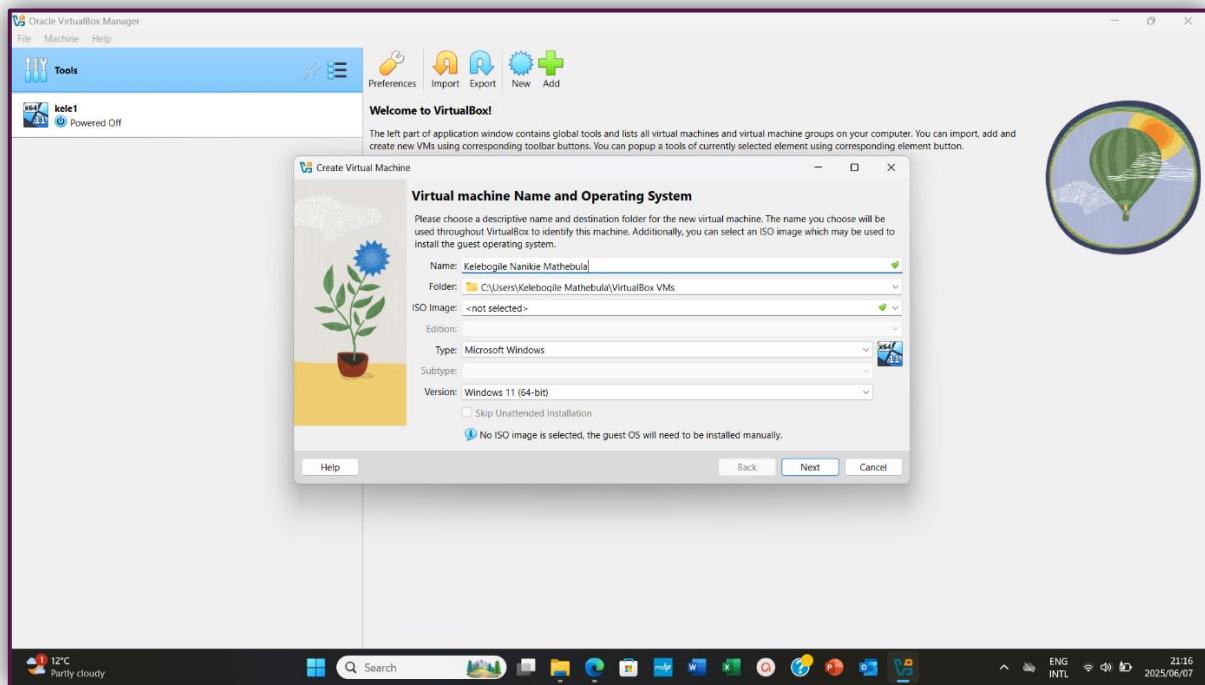
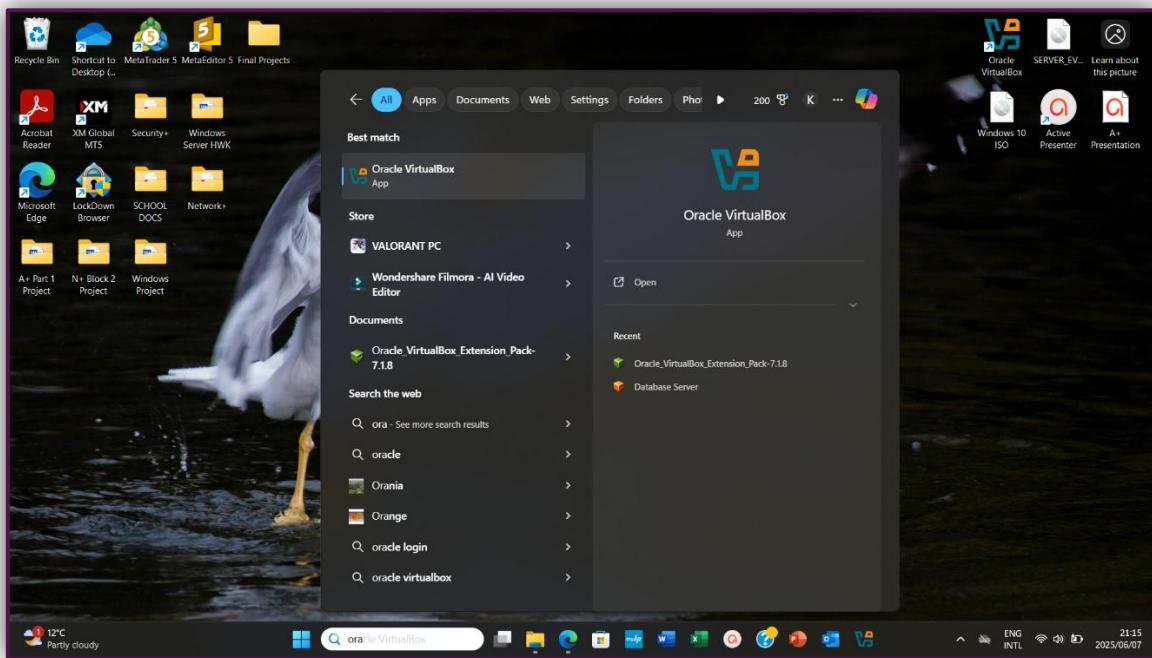
Therefore, the client machine was able to ping to the server meaning question 1 is complete meaning there is remote server management.

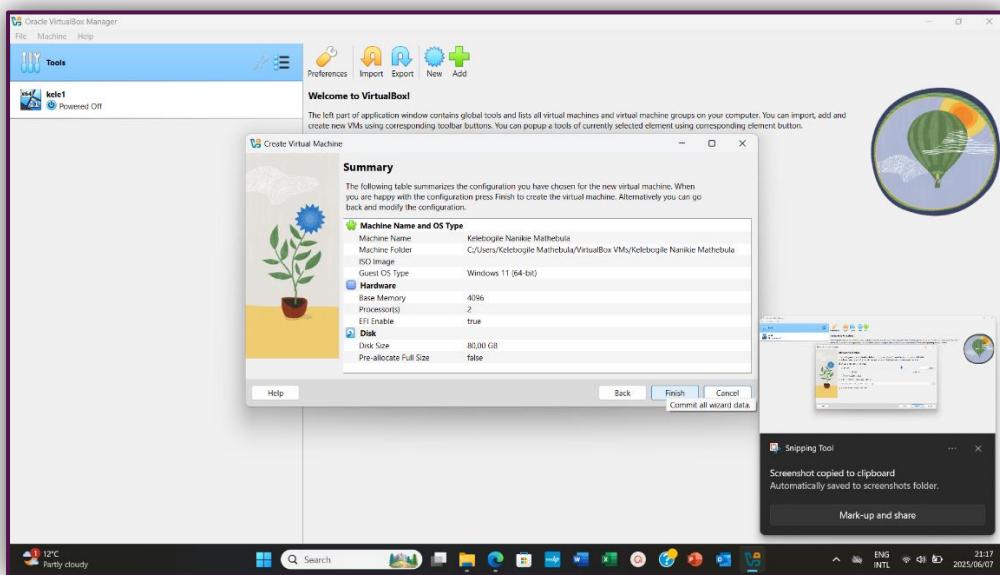
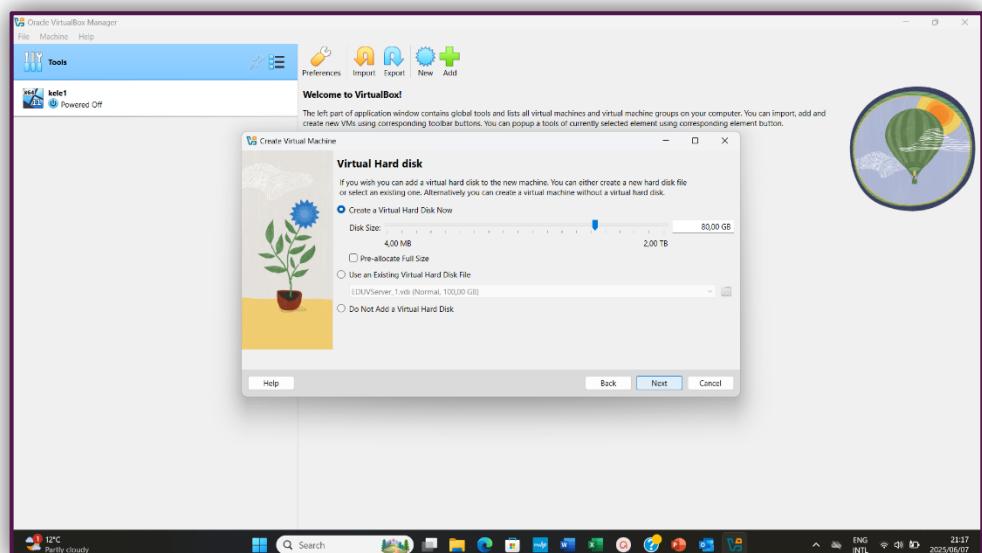
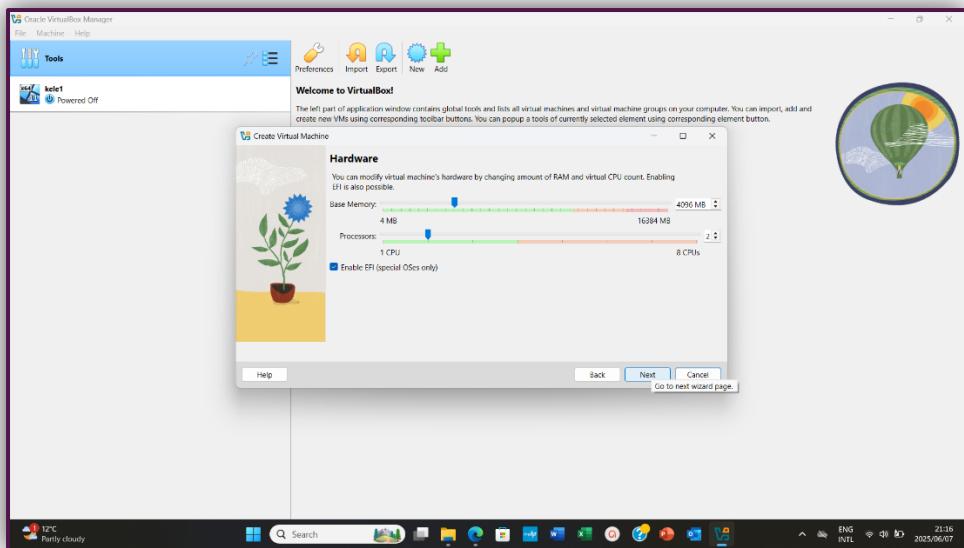
Question 2

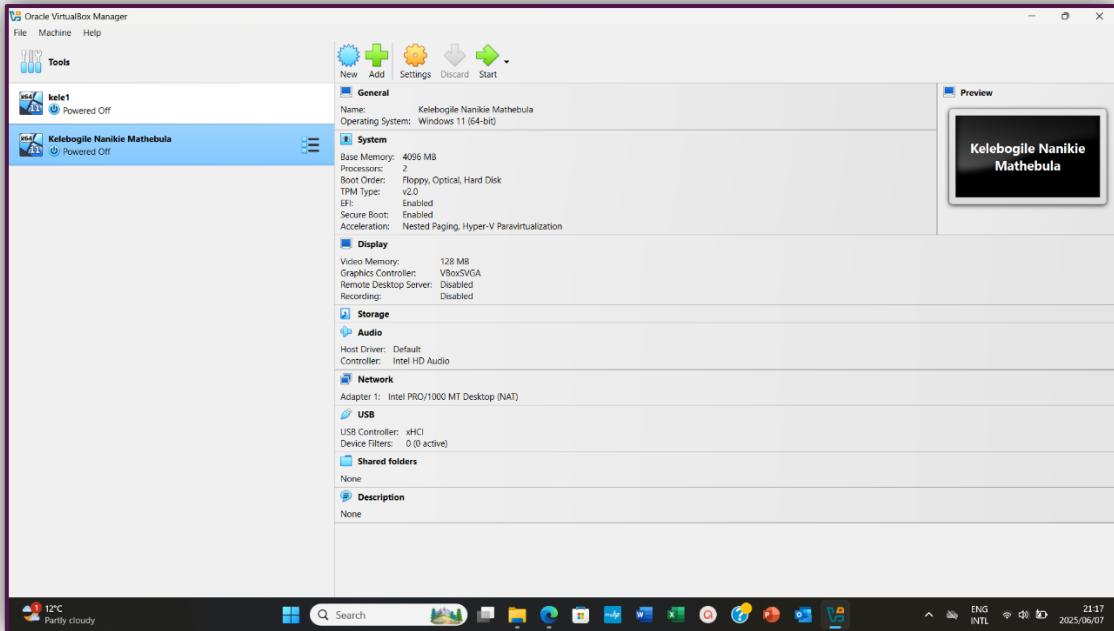
NB: Zoom in to see the images properly!!

2.1. Ensure that Hyper-V or Virtual Machine is installed on your machine. Use your name to name the Virtual Machine and take a screen shot of the Virtual Machine.

Step 1: I opened Oracle VirtualBox and created a VM with my name, this VM does not need any ISO image/file nor does it need to be ran.

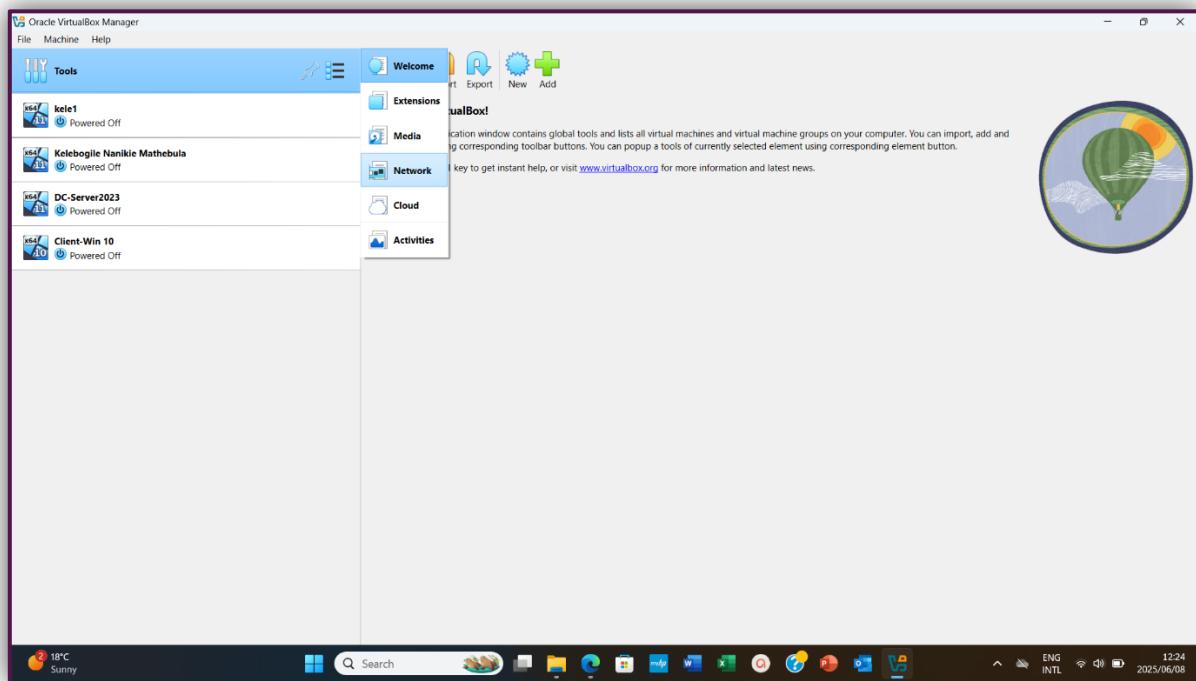


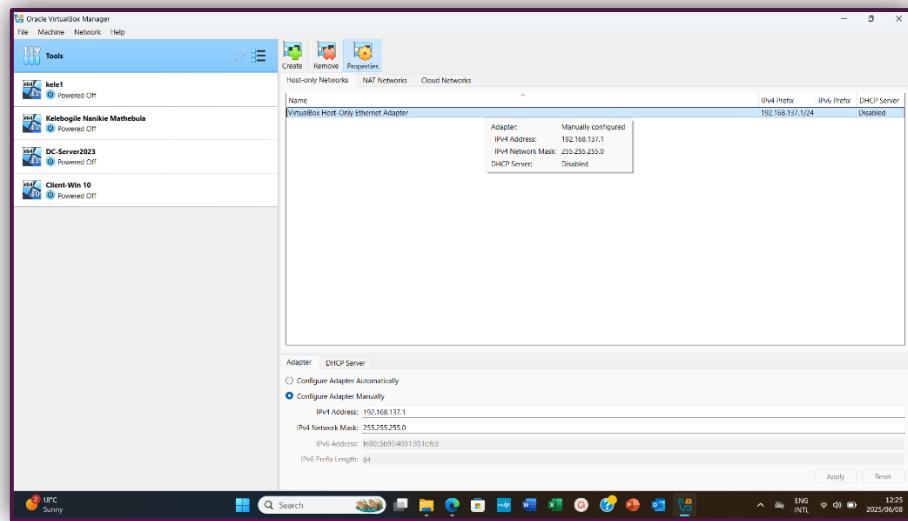




2.2. Take screen shots of all the Virtual Machine's configurations and explain briefly the screen shots.

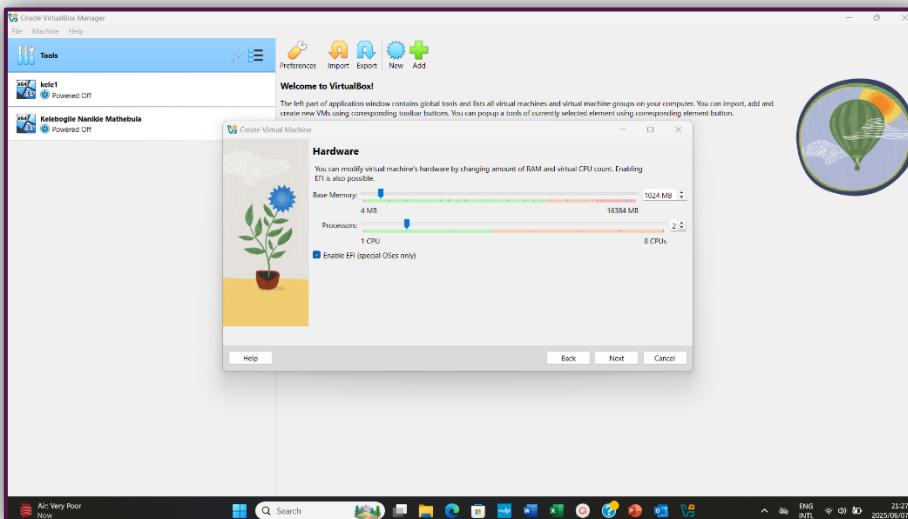
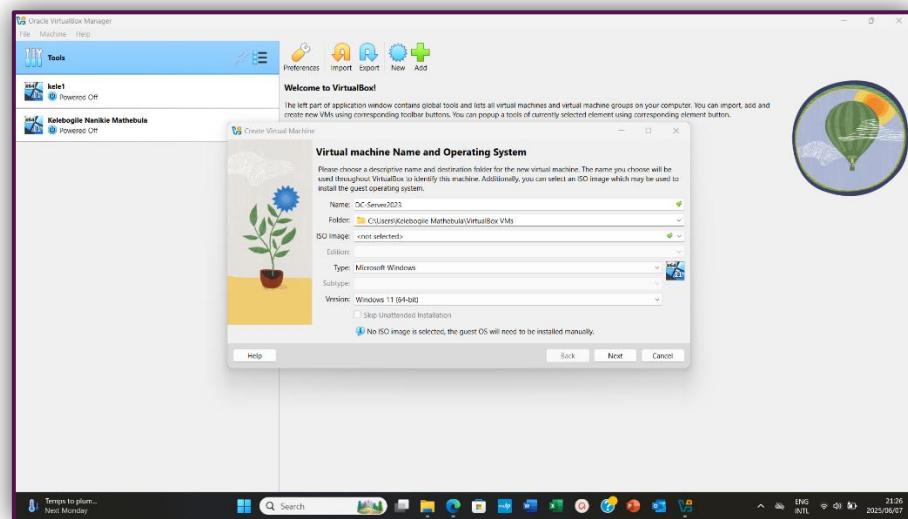
Step 2: This is where I created two virtual machines with the specs given to me in the assignment, I first created a virtual switch so that my VMs can be on the same network as well as for them to communicate properly. (Enkripsan, 2021)

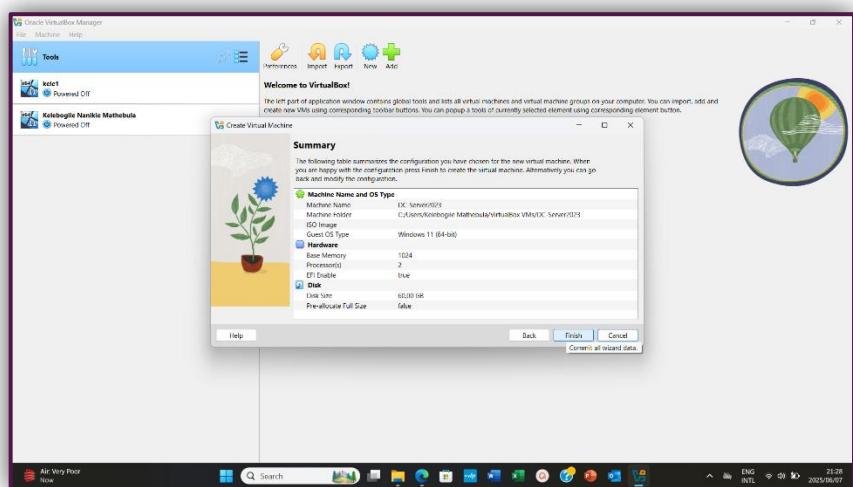
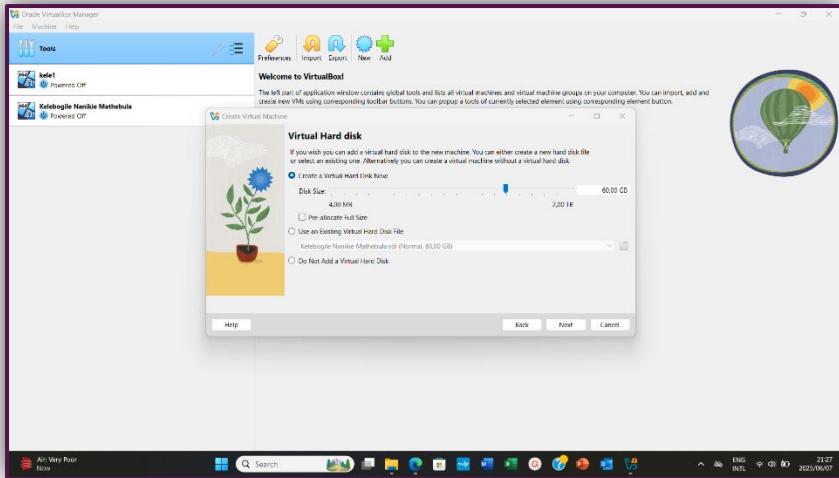




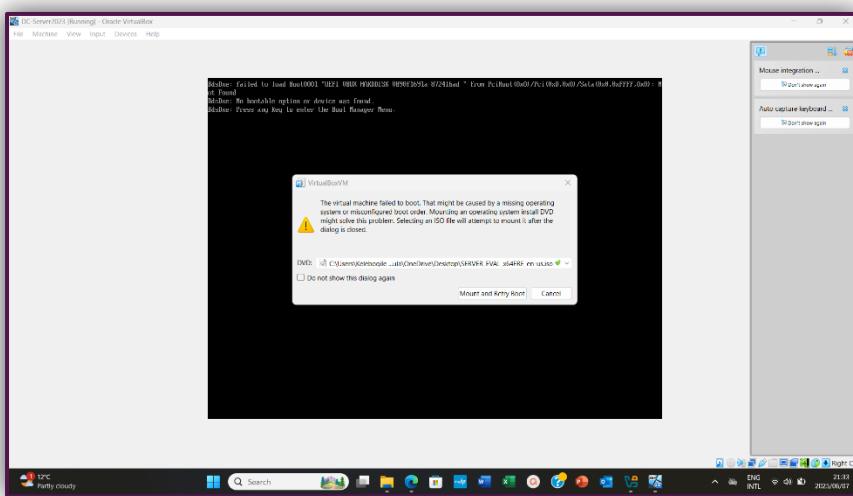
Step 3: I then created the server and the client machine respective to the specs given.

DC-Server2023



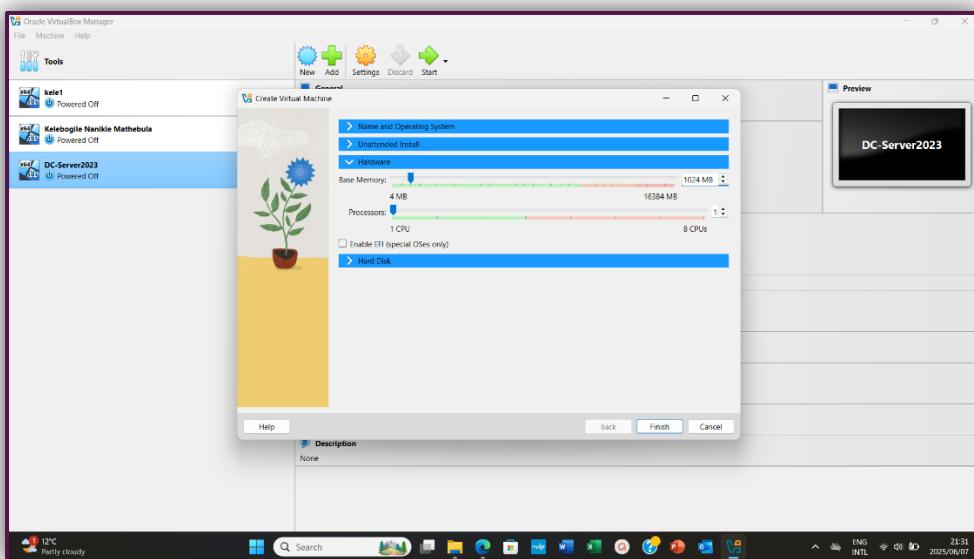
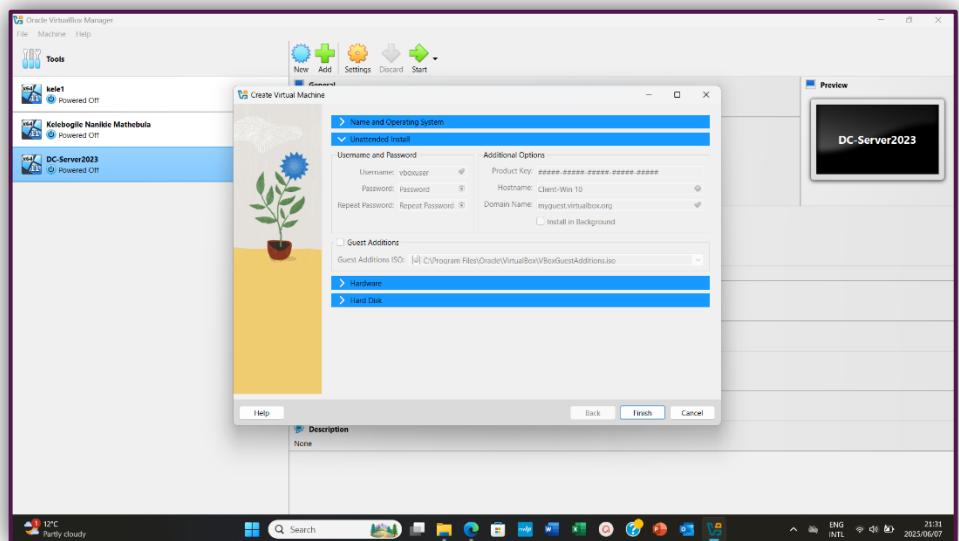
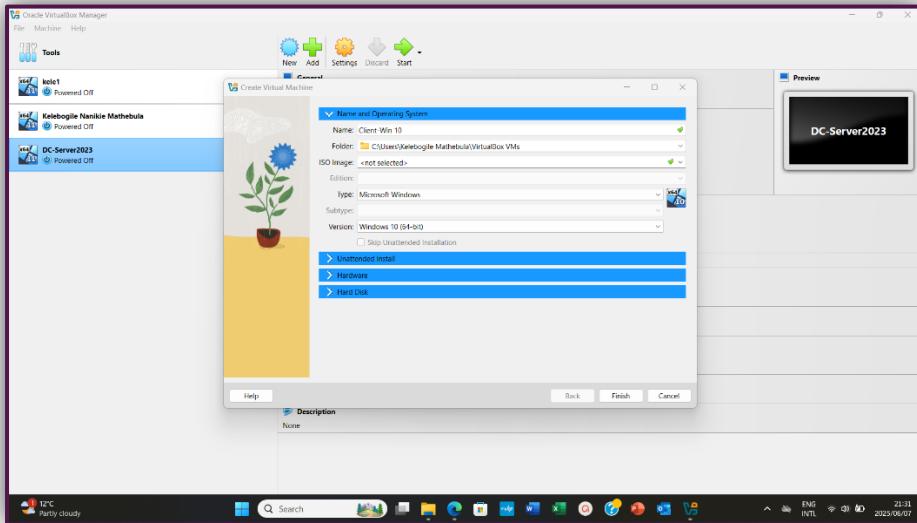


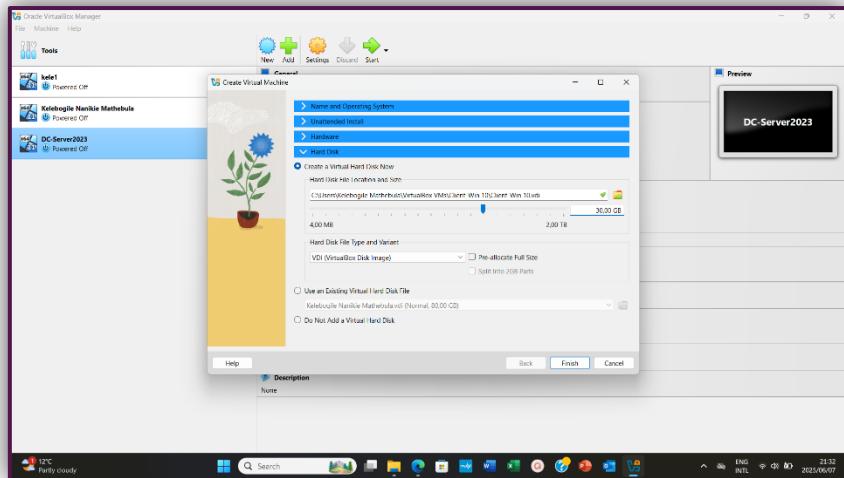
After running the machine, I then inserted the ISO file/image.



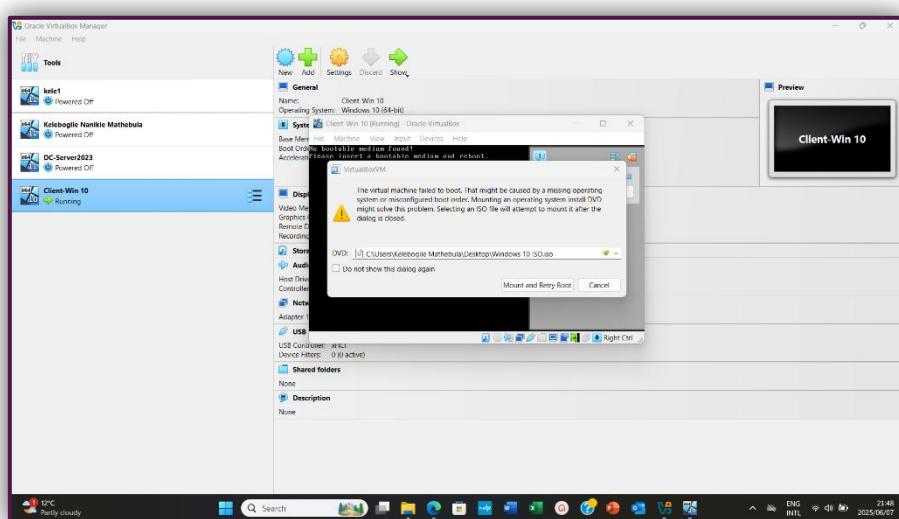
After this there will a pop up that says “press any key to boot CD or DVD...”, after you do that, the machine will require you to install the OS. Once the OS has been installed, you’ll need to make an administrator password then you’ll be led to sign in page.

Client-Win 10

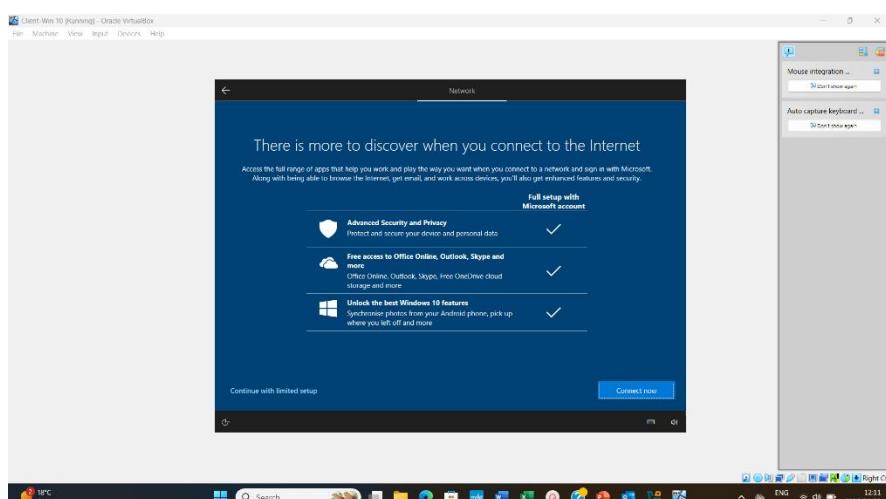




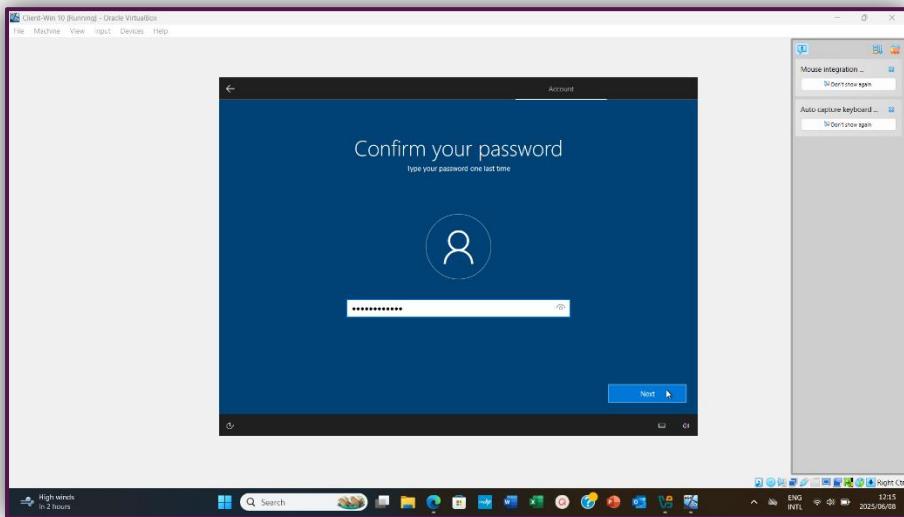
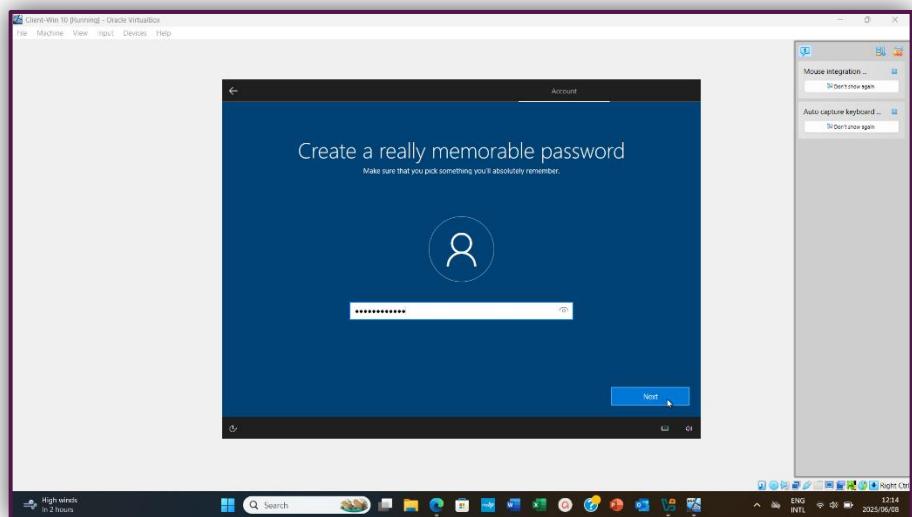
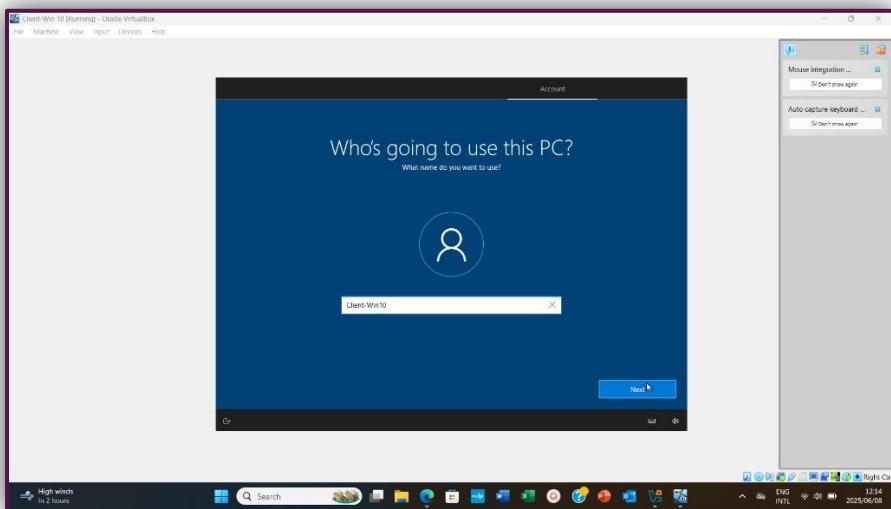
After setting up the client I then added the ISO image/file



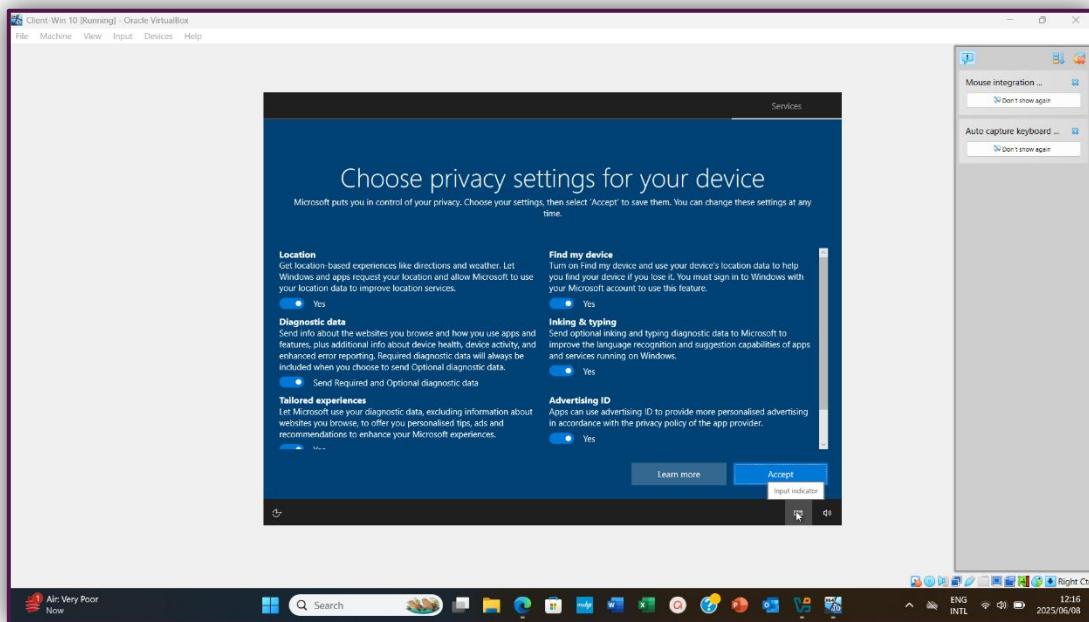
After you mount and reboot there will be a pop up that says “press any key to boot CD or DVD...”, after doing that Windows 10 will then be installed. Once the installation ends you have to set up your client machine, the following images are how I set up my client machine.



For the previous image, that is where you connect to the internet, I did not require internet so I did not connect to the internet.



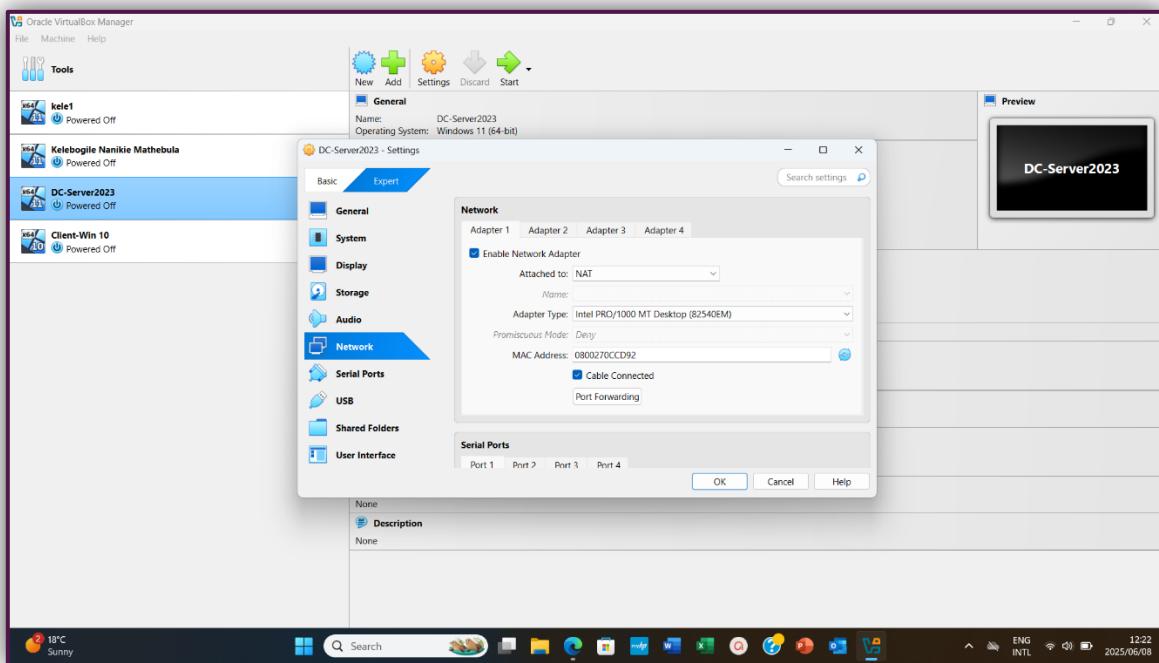
After this you'll be required to answer security questions just in case you forget your password, the next thing will be to choose your privacy settings.

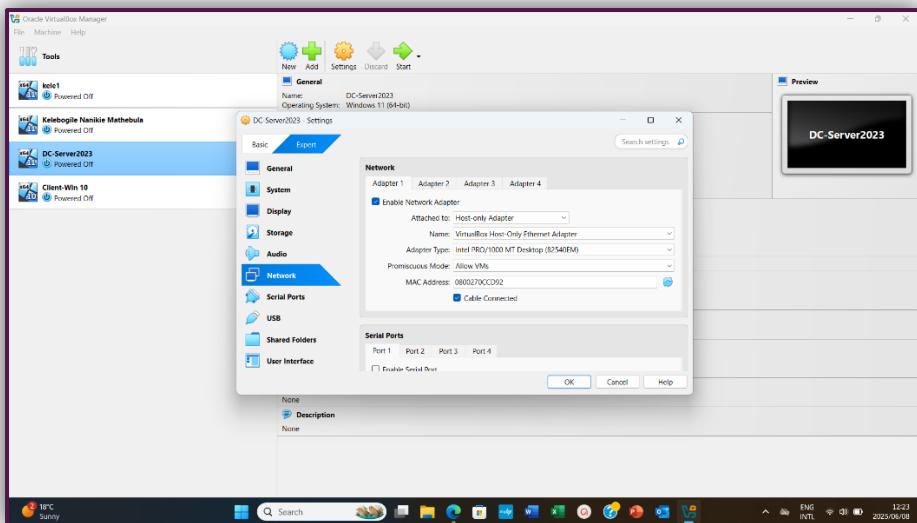


After this you'll be able to sign into your client machine.

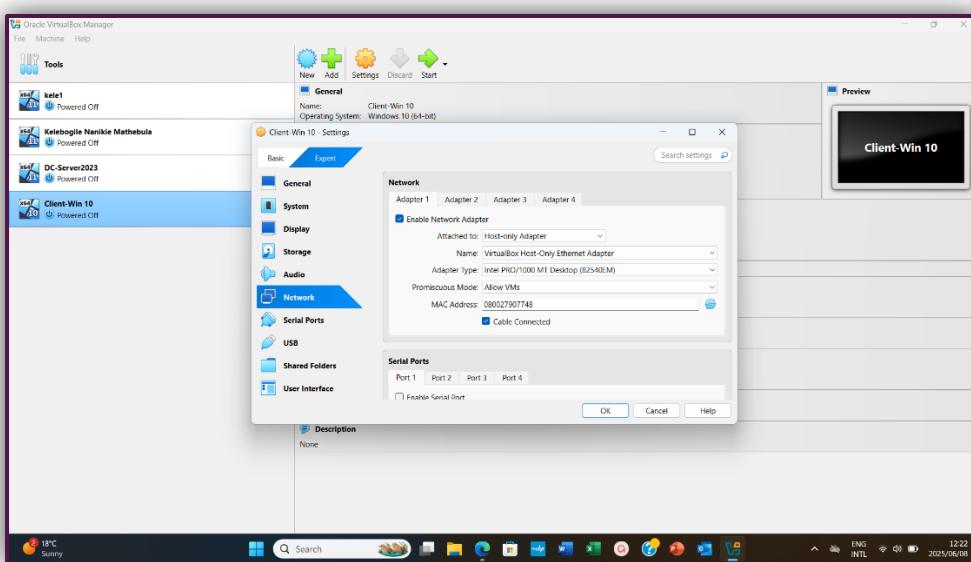
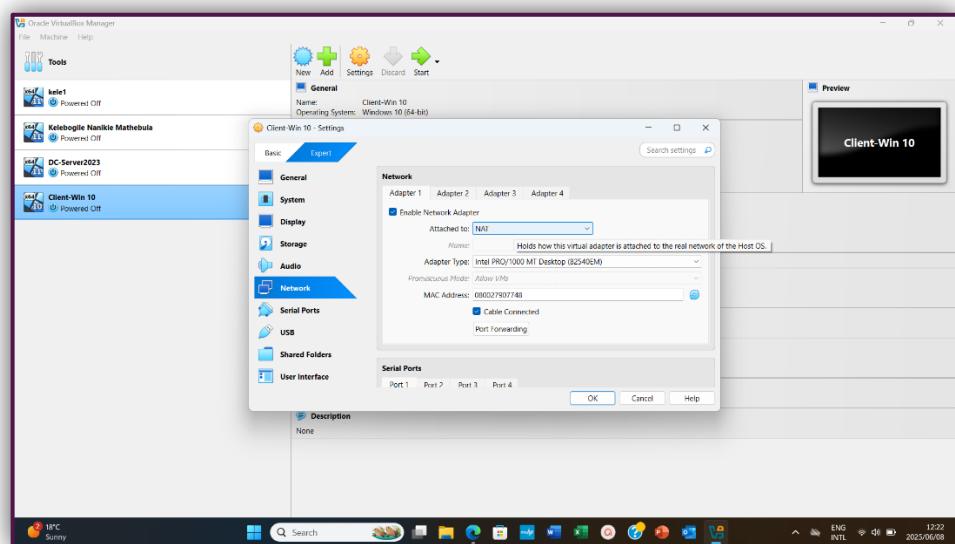
Step 4: This is where I then connected my VMs to the virtual switch that I made at the very beginning.

DC-Server2023

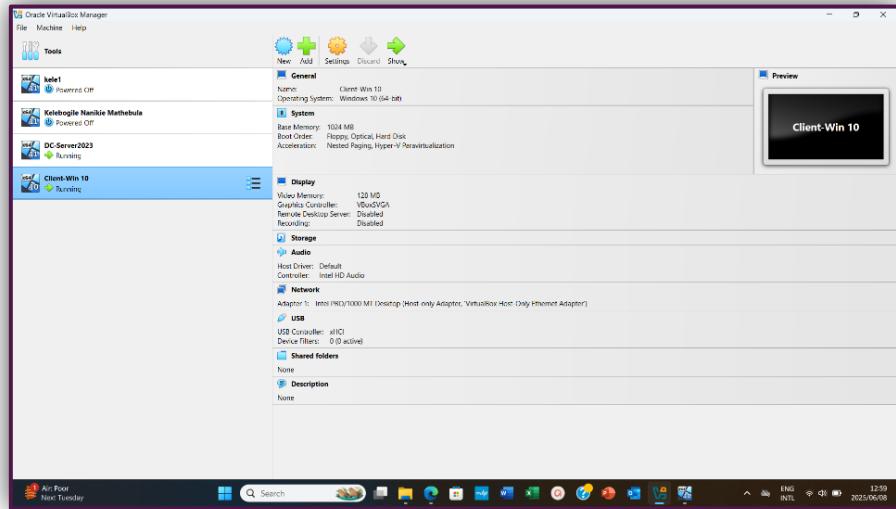




Client-Win 10



I created both the machines according to the specifications given

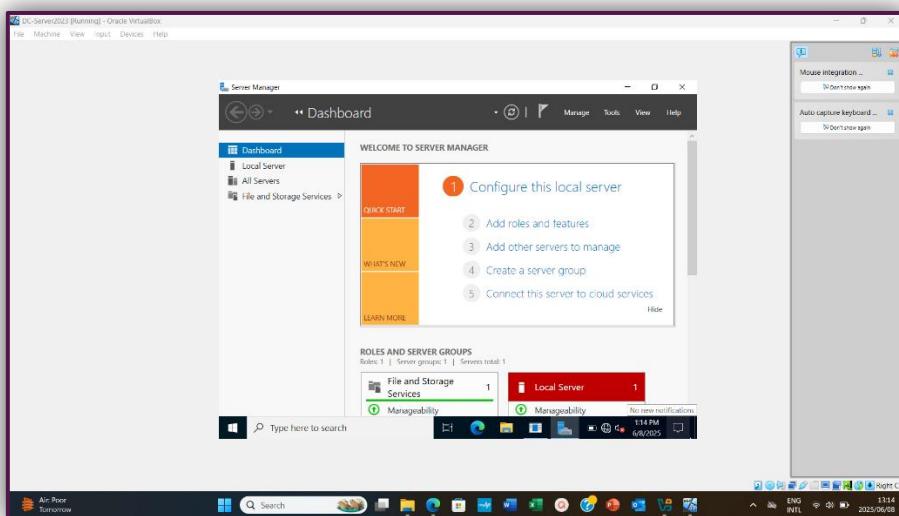


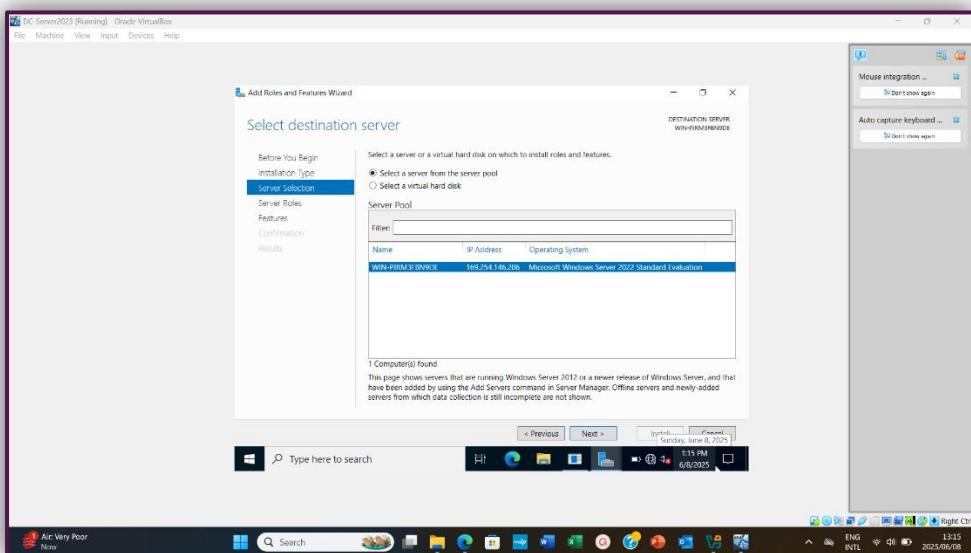
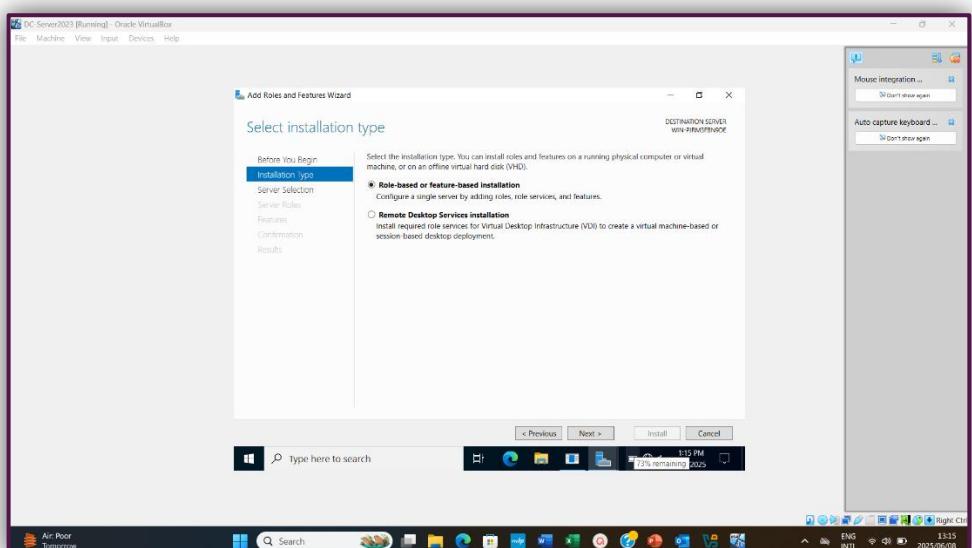
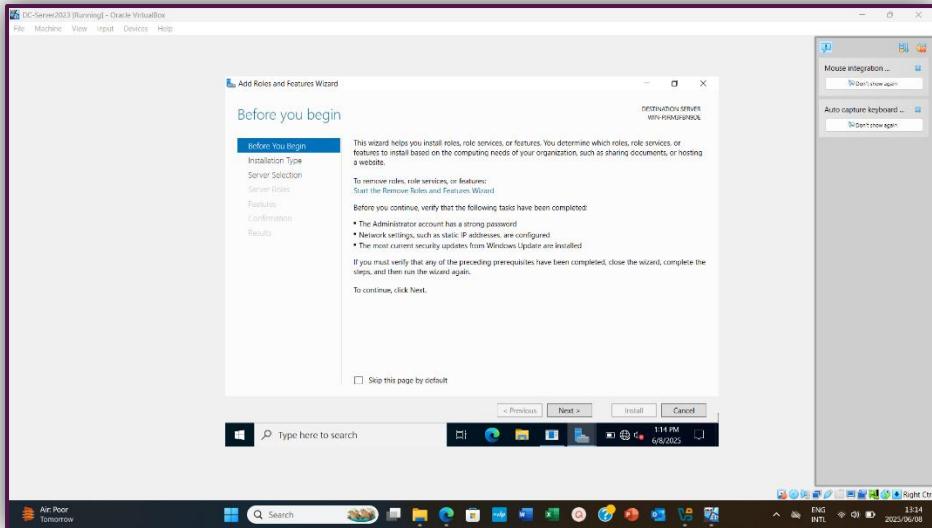
2.3. Your Lecturer has instructed you to demonstrate the capabilities of the print services included in Windows Server 2022 on DC Server 2023, and how the printer can also be deployed on Client-Win 10.

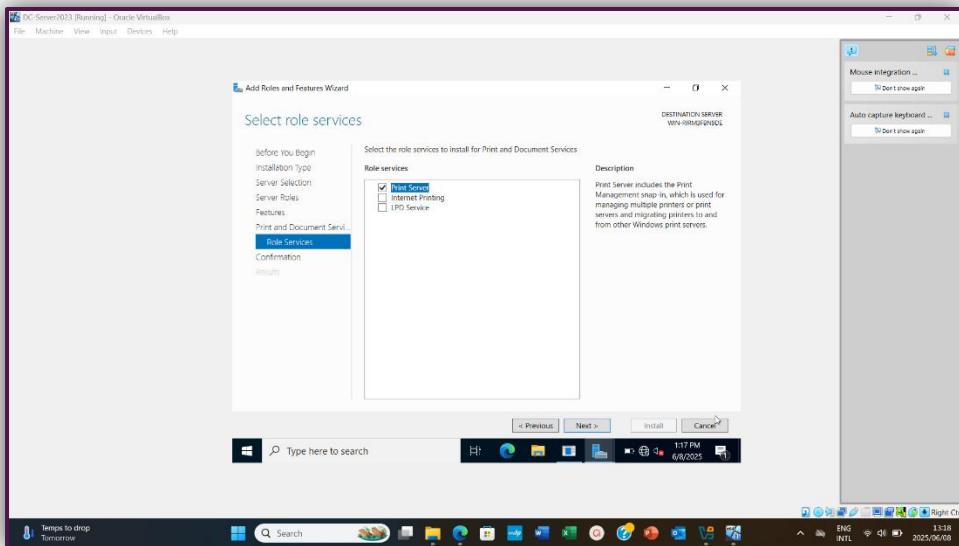
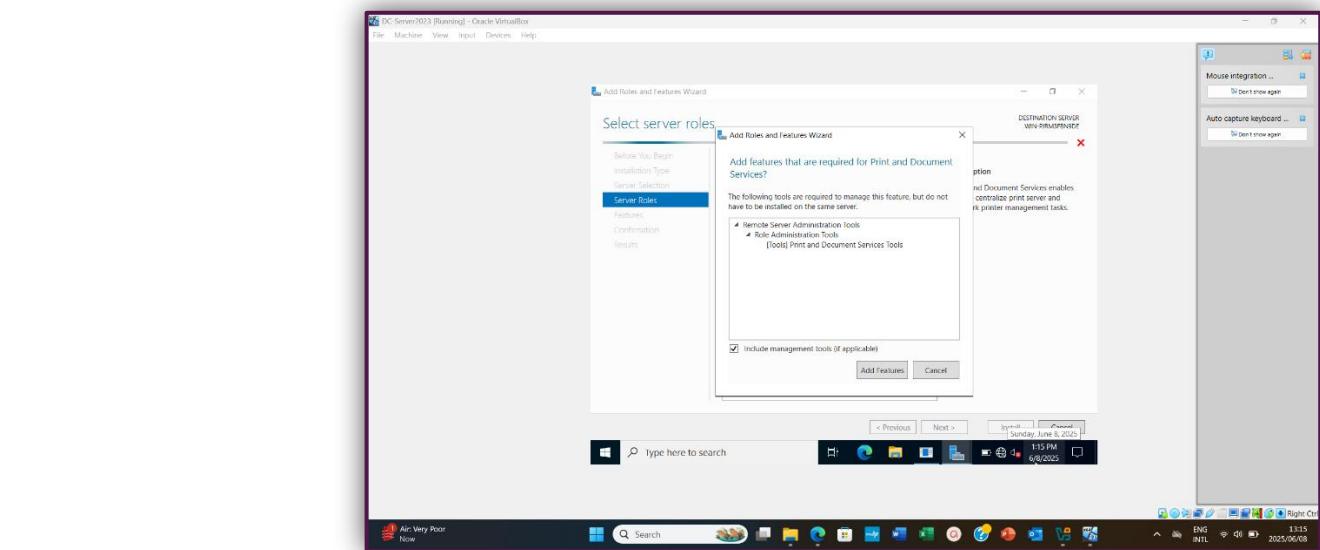
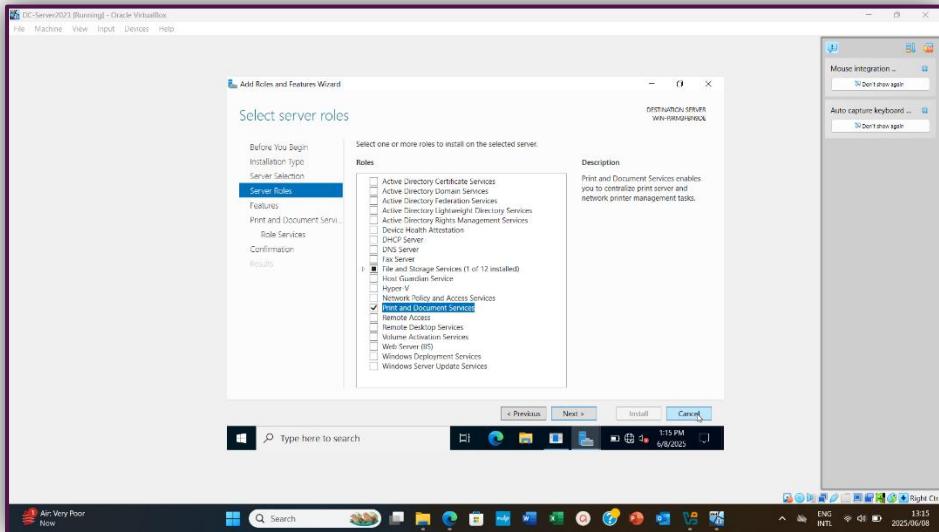
NB: Please choose either Option 1 or Option 2 but not both to respond to the question 2.3

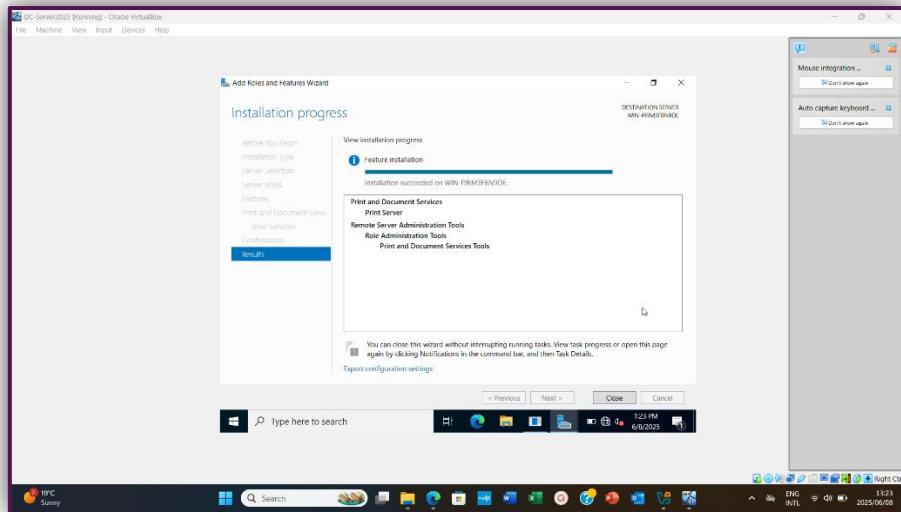
- ❖ Option 1: No Operating Systems are actually installed hence explain the steps that should be done to achieve the requirements question in 2.3.
- ❖ Option 2: An Operating system has to be installed, using screenshots show the steps that should be followed to achieve the requirements in Question 2.3. Take screenshots of all the steps.

Step 5: This is where I added the print and document services role/feature to the DC-Server2023.

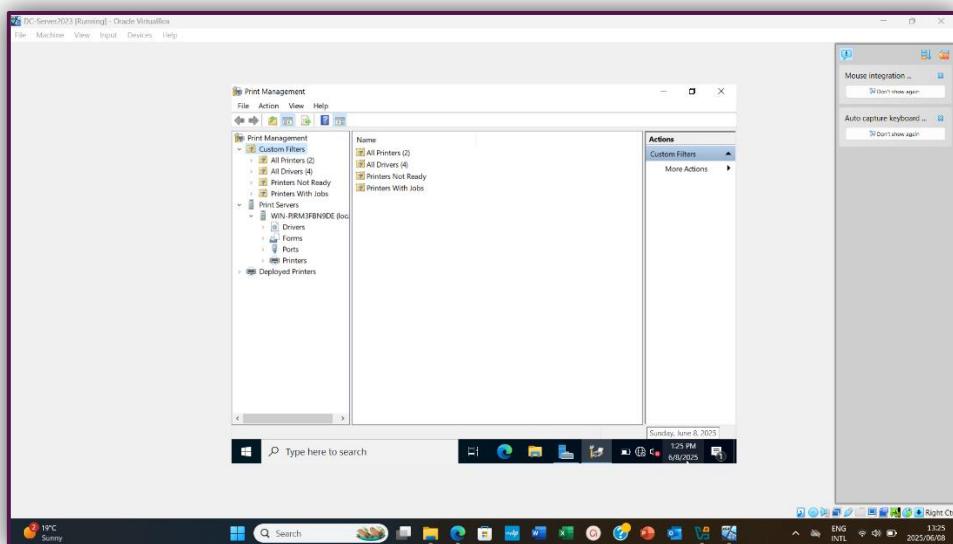
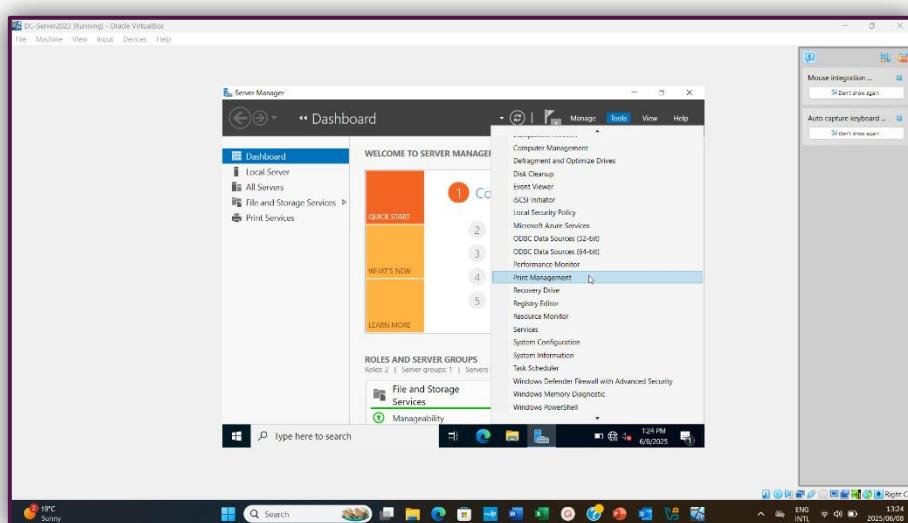


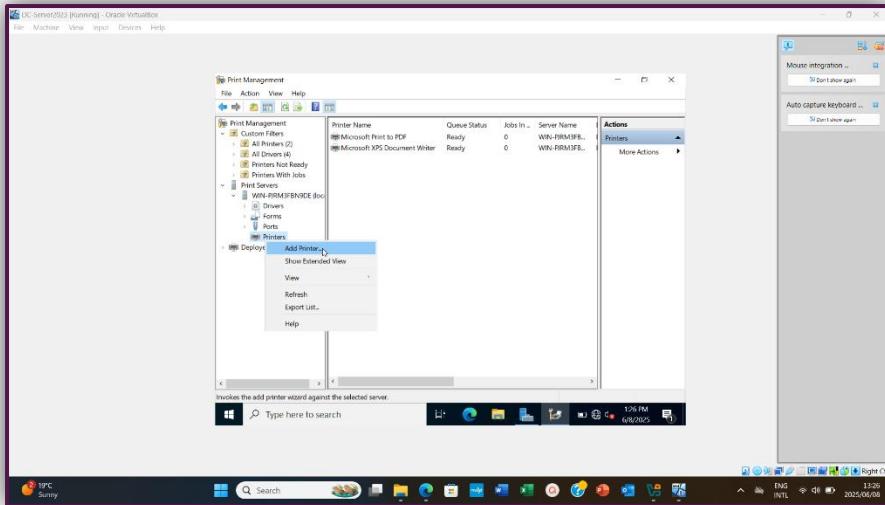




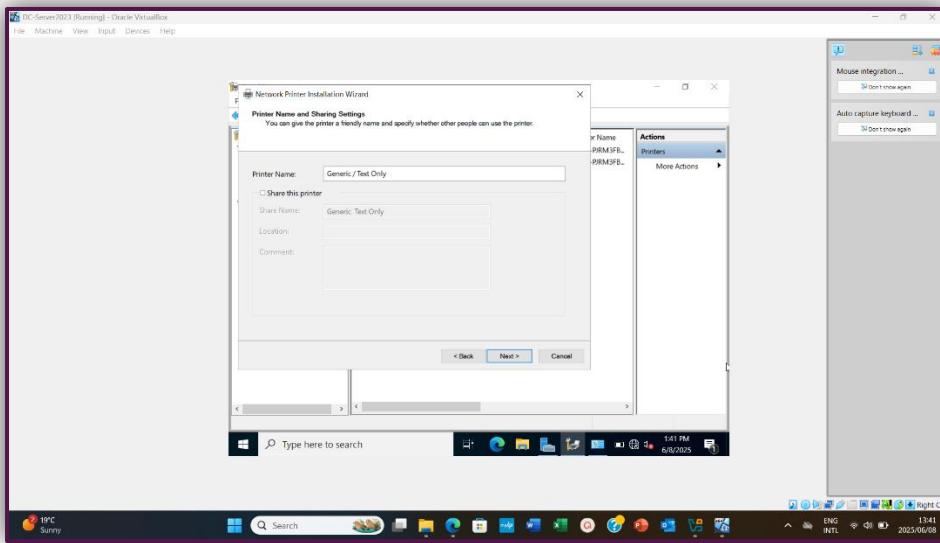
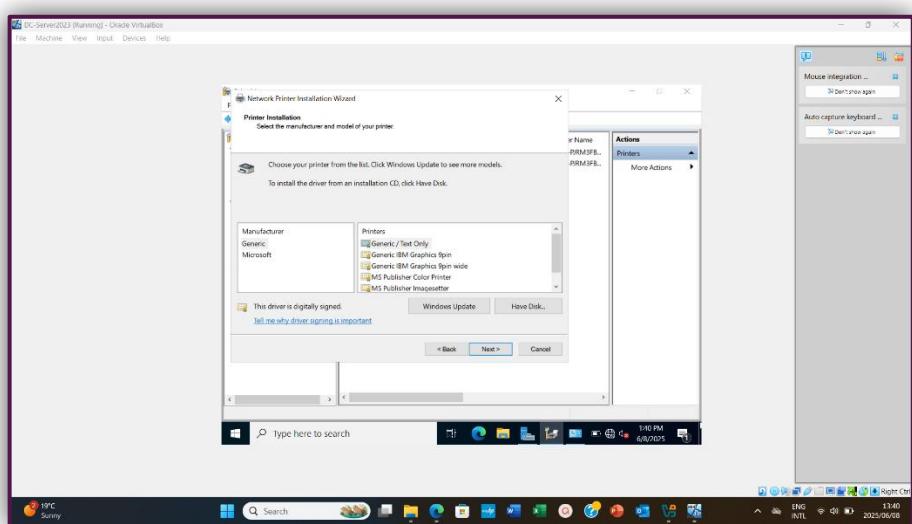


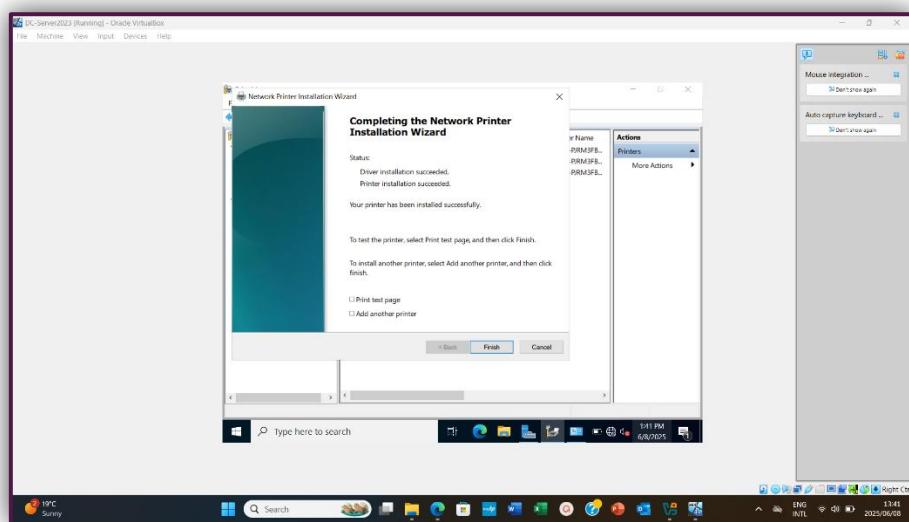
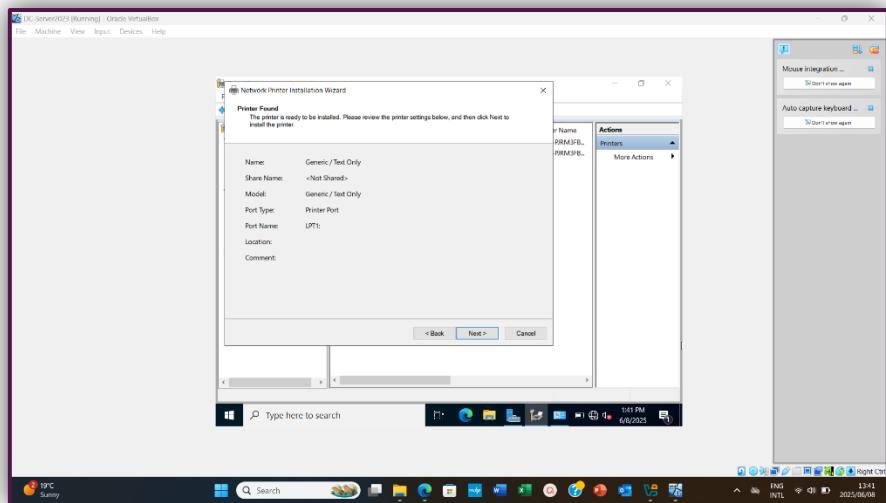
Step 6: This is where I added a printer that the client should be able to make use of.



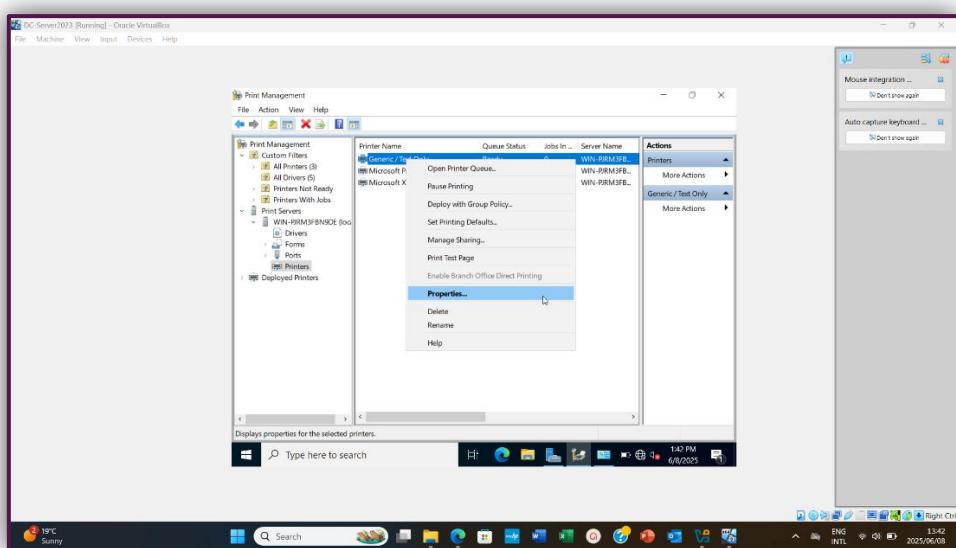


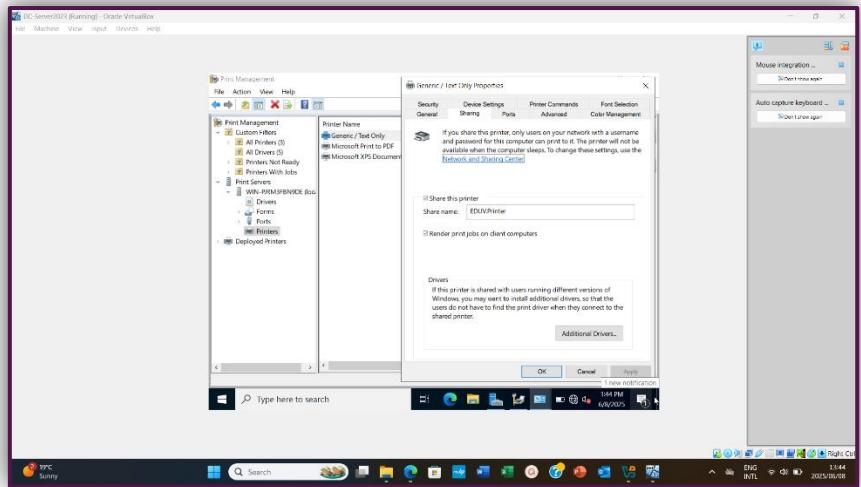
A wizard will then appear that's where you I added the printer.



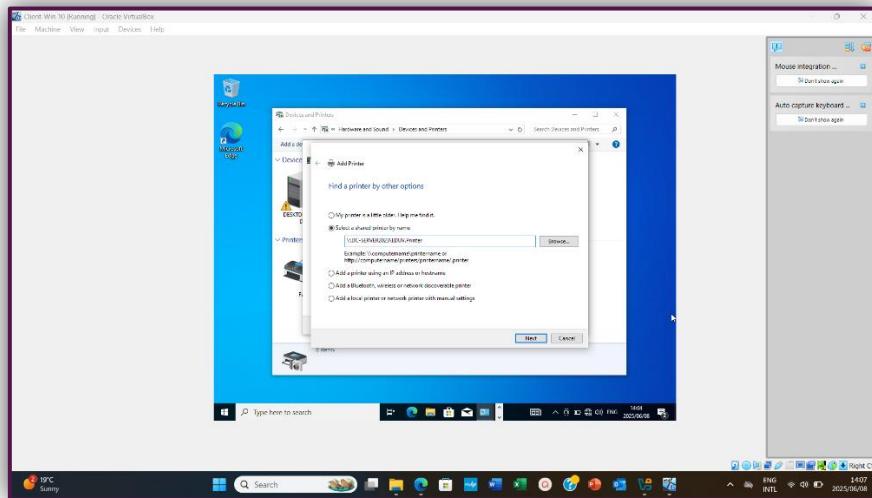
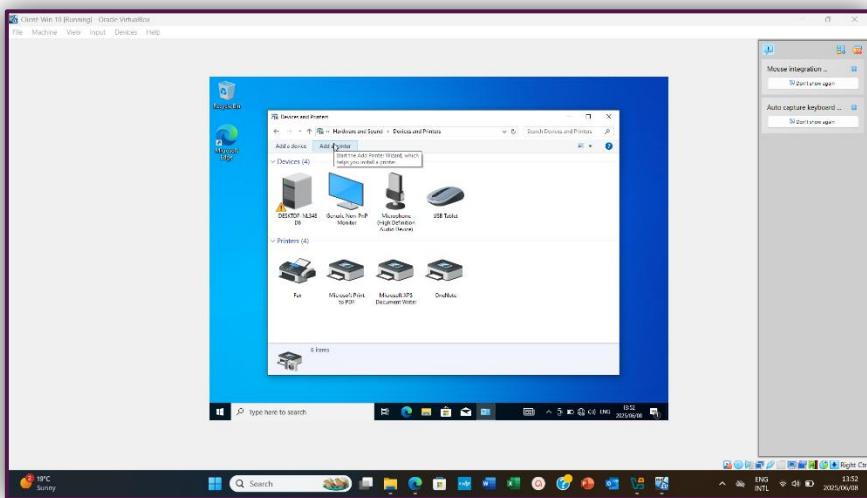


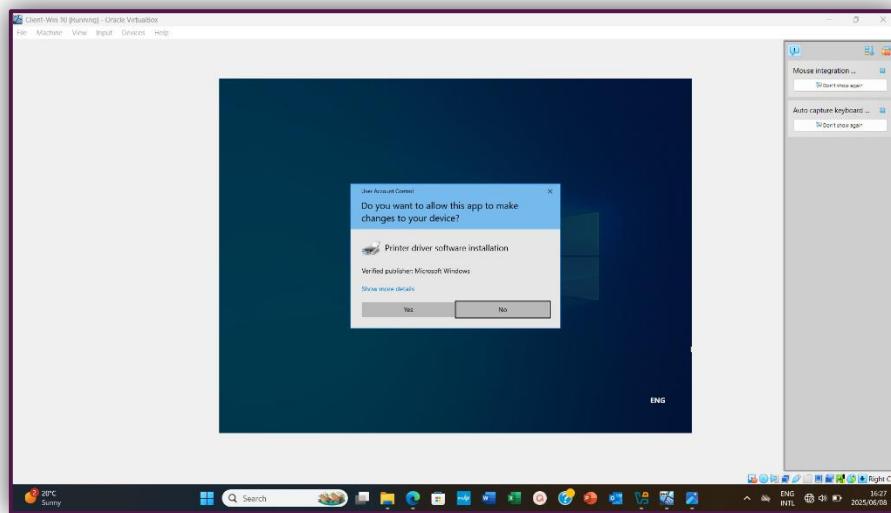
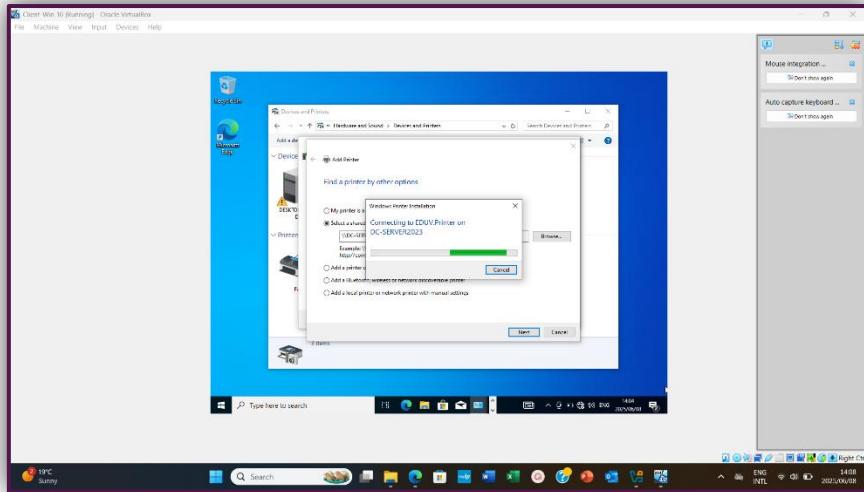
Step 7: I then went to the printer's properties to enable the printer's sharing so that the client can be able to find the printer machine



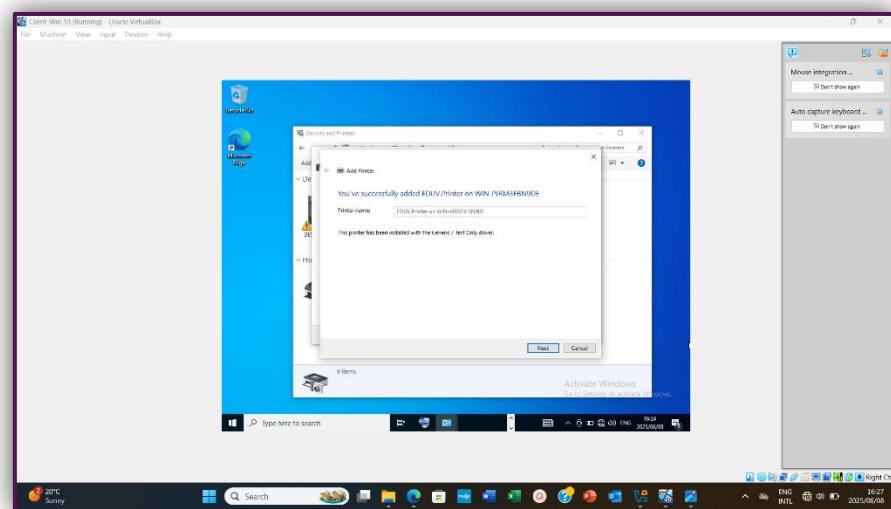


Step 8: I opened the client machine; I then went to Control Panel where I then navigated to Hardware and Sound. I then went to Devices and Printers which is where I added a printer. The following images represent the process of adding the printer from the server into the client machine. (MDTechVideos, 2017)



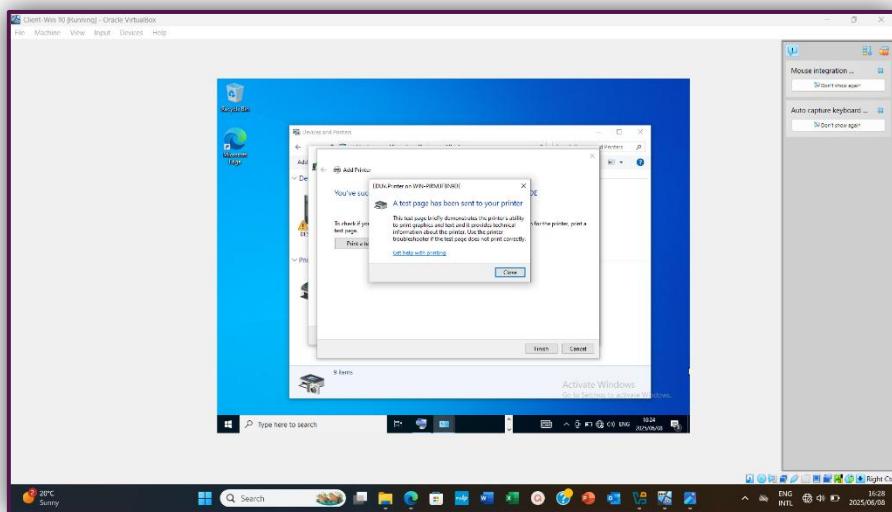
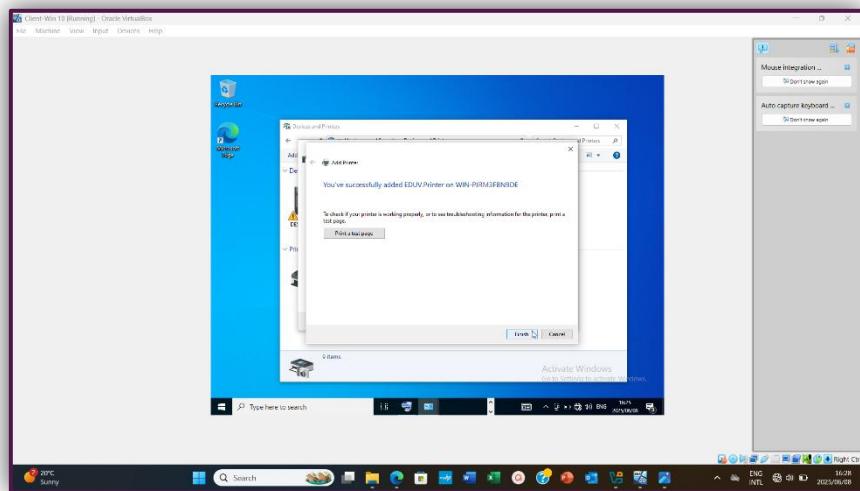


For the previous image I choose yes.

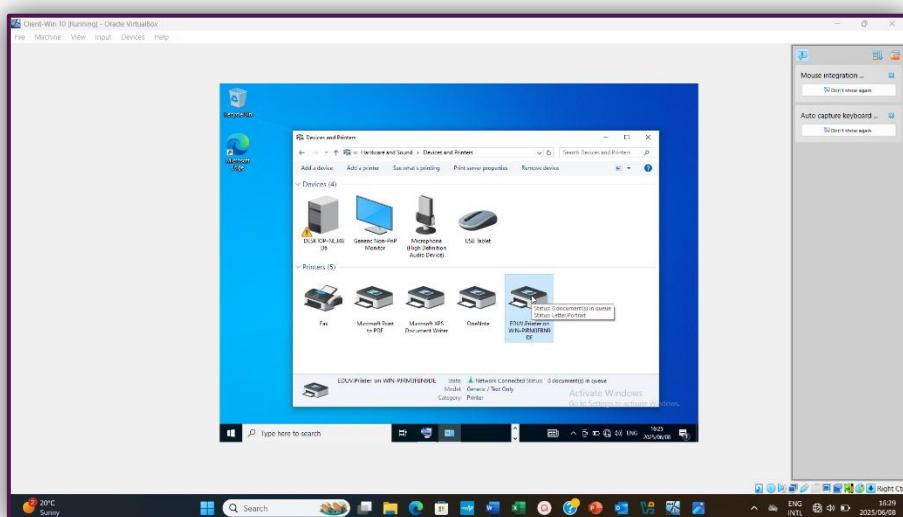


For the previous image the printer was successfully added into the client machine.

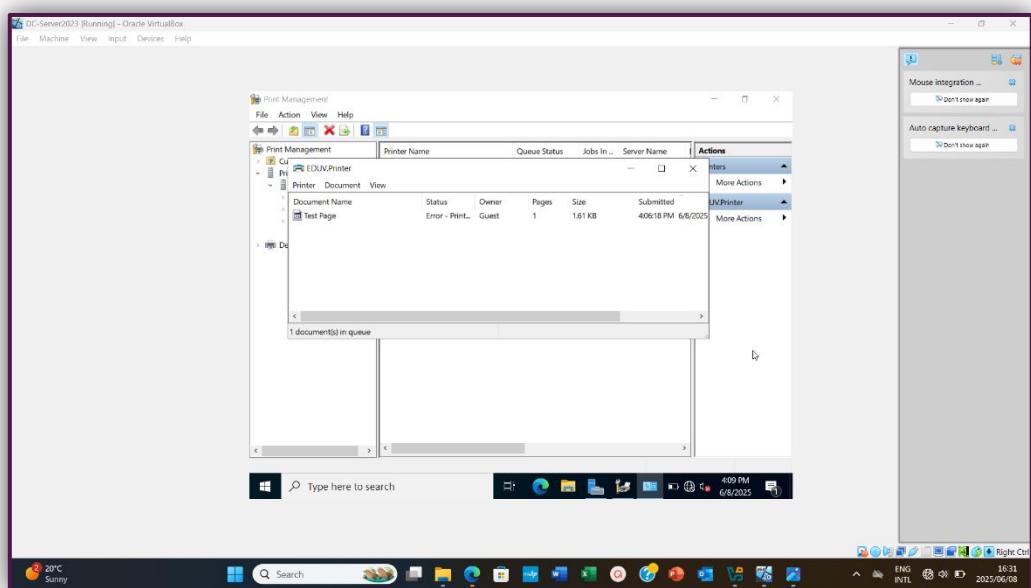
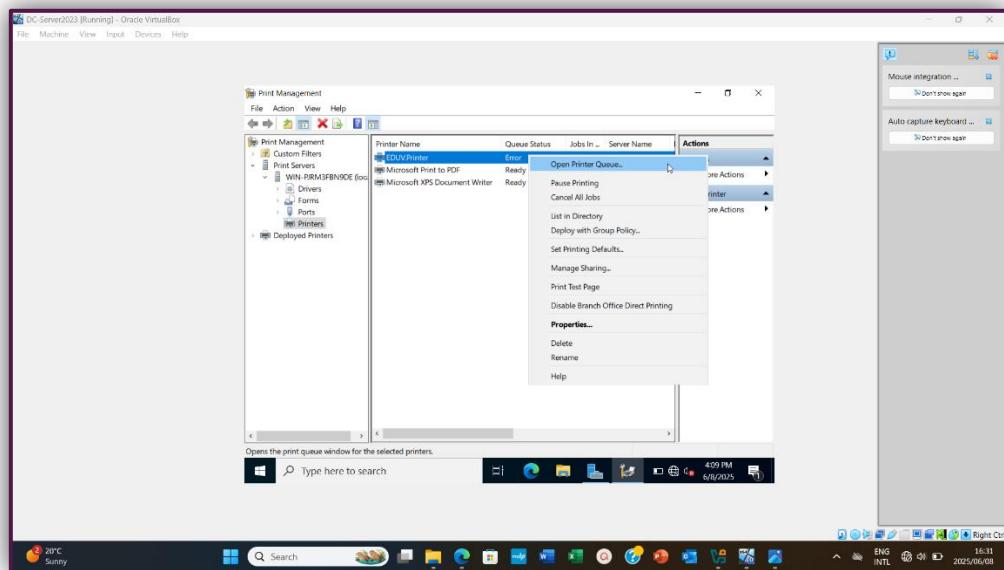
Step 9: The next thing I did was test if the printer is actually connected to the client machine by printing the test page.



The following image proves that the printer was successfully added.



Step 10: I then went to server to see if any print job was received. A print job was indeed received from the client, which is the final step of their communication.



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- WebCast, M. (2019, February 03). *MSFT WebCast*. Retrieved from Install and Configure DHCP Server in Windows Server 2019 Step By Step Guide: https://youtu.be/fUK6d3s1Im4?si=3j17_95giA7YmkVU

AI Declaration

I carefully read the assignment instructions, and the extent to which AI may be used for the assignment.

I used the following AI system(s)/tool(s):

I did not use any AI tool.

I used it for the following:

I did not make use of any AI tool.

If I quoted or paraphrased an AI output, I have referenced the relevant tool, version, and the date I used the tool.

I still consider this work my own (i.e., I have not outsourced the final product, or significant portions of it, to AI tools/systems).

If required, I can defend my argument/perspective, explain my choices and approach, and can show that I am knowledgeable about the details of my work.