



Lab 2 Template

Qualification national code and title	AE780 Transition to Cyber Security Skillset
Unit/s national code/s and title/s	VU23214: Configure and secure networked end points

Assessment type (☑):

- ☐ Questioning (Oral/Written)
☐ Practical Demonstration
☐ 3rd Party Report
☒ Other – Project/Portfolio (Part of assessment task 1)

Assessment Resources:

- PC
- Google
- Computer components PowerPoint

Assessment Instructions:

Instructions to the assessor:

This lab is a part of Assessment Task 2 portfolio, it is a practical lab based on the performance criteria requirements of the unit. Each student should be given a copy of this lab to complete either in class or out of class. As the student completes each section of this lab you should verify, check off and sign off the section (Use this document as the observation checklist). Use the assessor section at the bottom to provide feedback to the student if required. See the instructions to the student section for the remainder of the instructions.

Instructions to the student:

This lab consists of activities that you perform on the hardware and software nominated concerning preventative maintenance and base level troubleshooting procedures. There are several short answer questions where you will be asked to research and answer questions relating to these topics. You are encouraged to use the documentation in the resource section to help you work on the requirements.

Time:

Nominally 120 mins

Due date:

This lab is part of assessment 1 and inherits its due date.

Submission instructions:

When the lab is complete, submit the assessment via Blackboard.

Reasonable adjustment:

Should there be difficulty with reading technical manuals relating to disability of language and literacy levels you are encouraged to use online video tutorials similar to the following:

- https://www.youtube.com/watch?v=HBP8_LqBj44

Your Student ID: 20145454	Your Name: Rajib Hossain Khan
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Lab 2: Virtualisation and Installation of Operating Systems

Objective:

In this lab, students will set up a virtualisation environment using **VMware Workstation** or **VirtualBox**. They will download and install **Windows 10 or 11** and **Ubuntu Linux** as virtual machines and complete the initial setup for both operating systems.

Instructions for Students:

Step 1: Install Virtualisation Software

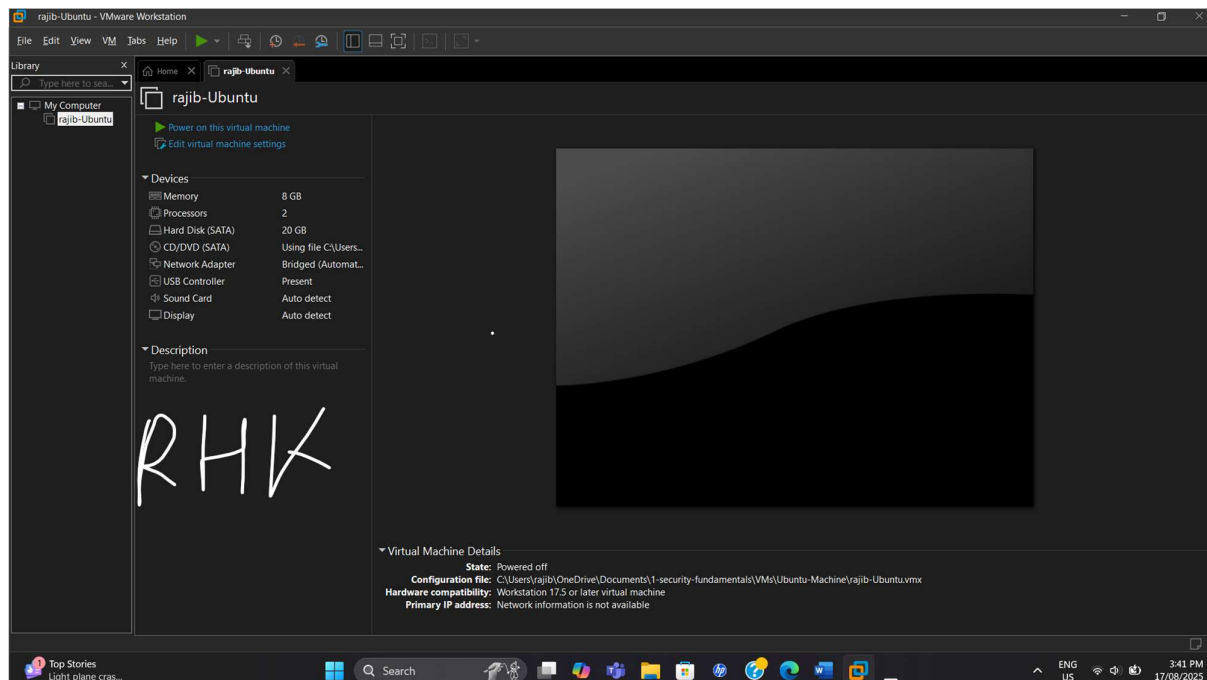
1. Choose a Virtualisation Platform:

- Download and install **VMware Workstation Player** (recommended) or **VirtualBox** from their official websites.
- VMware Workstation Player:**
<https://www.vmware.com/products/workstation-player.html>
- VirtualBox:** <https://www.virtualbox.org/>

2. Verify Installation:

- Open VMware or VirtualBox after installation to confirm it is working correctly.

(Add screenshot of this step below)





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Step 2: Download Operating System ISO Files

1. Download Windows 10 or 11 ISO:

- Visit the official Microsoft website to download the **Windows 10 or 11 ISO file**.
- Link: <https://www.microsoft.com/en-us/software-download/windows11>
- Select **Windows 10 or 11** and choose the latest version available.

2. Download Ubuntu Linux ISO:

- Visit the official Ubuntu website to download the **Ubuntu Desktop ISO file**.
- Link: <https://ubuntu.com/download/desktop>
- Download the **latest stable LTS version** (e.g., Ubuntu 22.04 LTS).



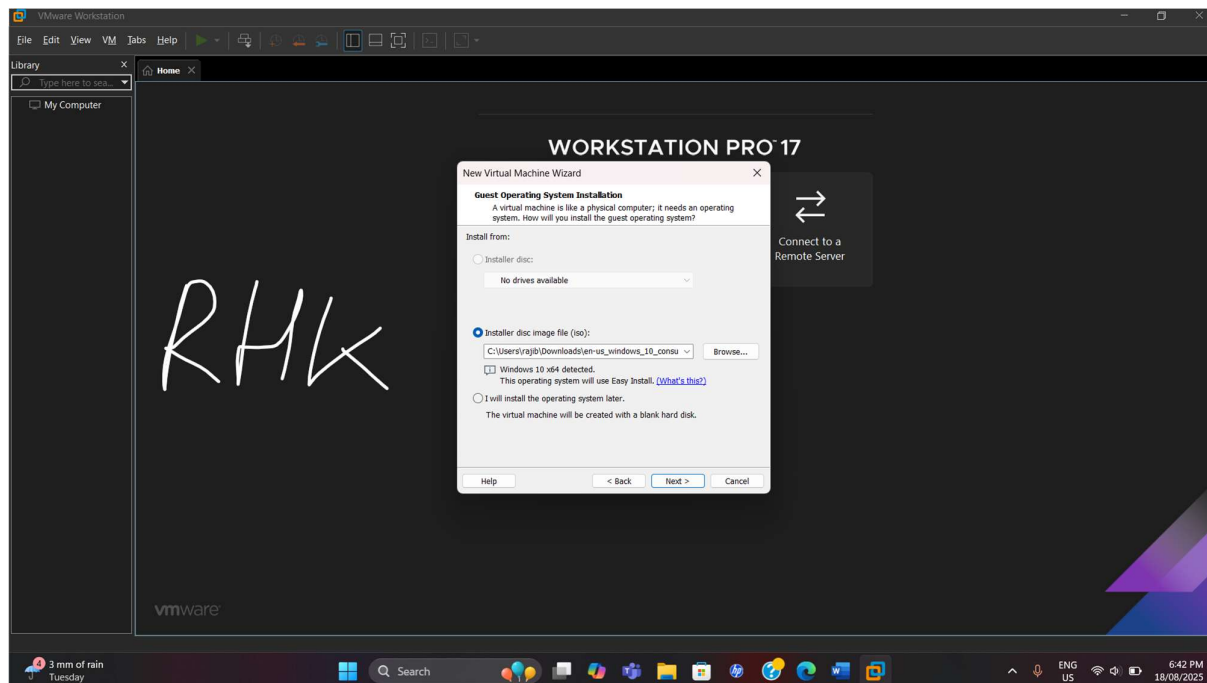
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Step 3: Create Virtual Machines

Create a Windows 10 or 11 Virtual Machine

1. Open VMware/VirtualBox and select **Create a New Virtual Machine**.
2. Choose **"Install from ISO"** and select the **Windows 10 or 11 ISO file**.

(Add screenshot of this step below)



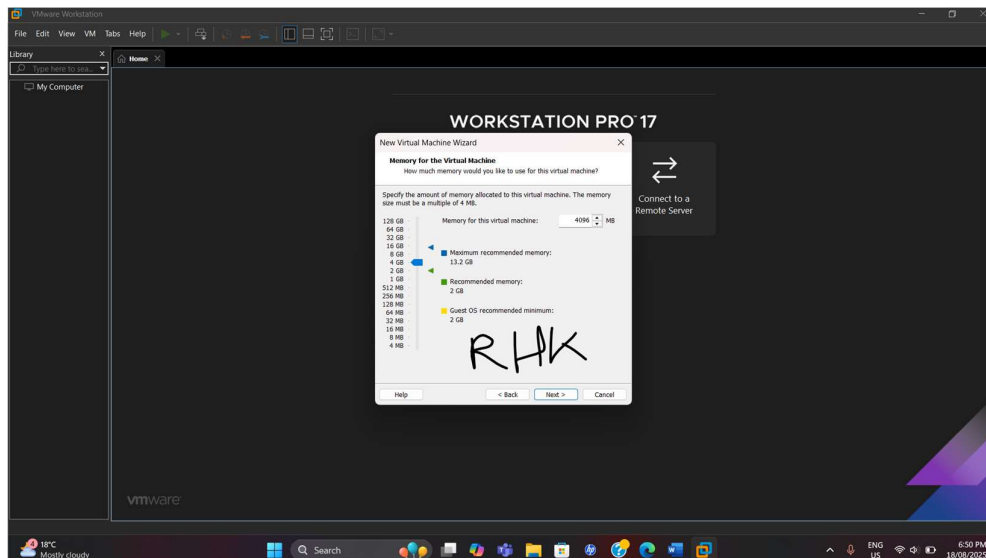
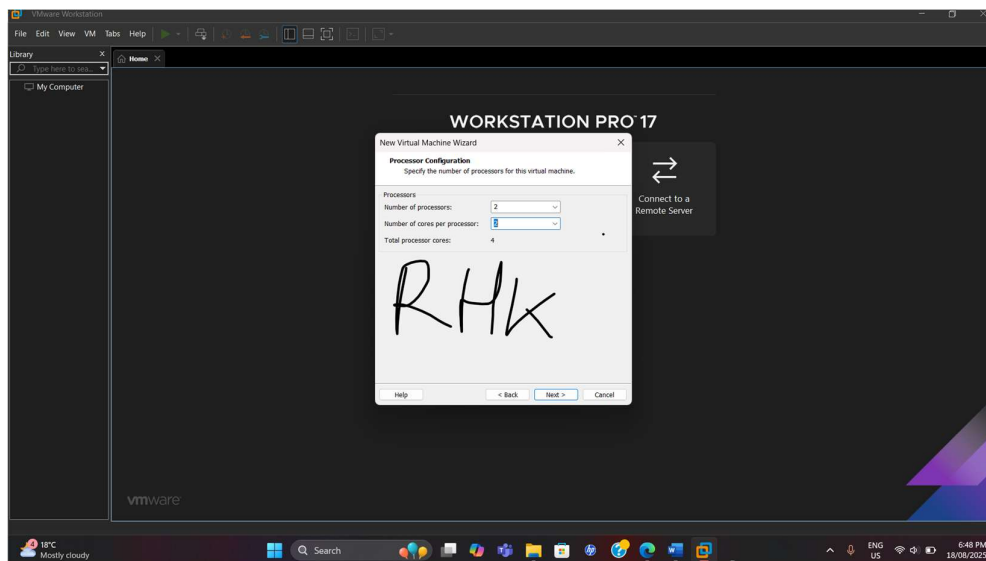


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3. Allocate System Resources:

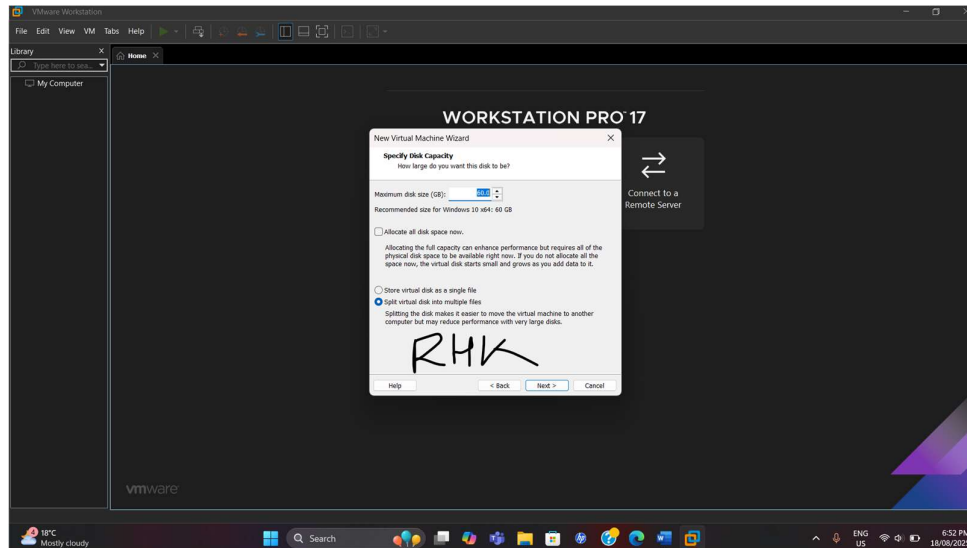
- **RAM:** Minimum **4GB** (8GB recommended).
- **CPU Cores:** At least **2 cores**.
- **Storage:** Allocate at least **60GB of disk space**.

(Add screenshot of this step below)





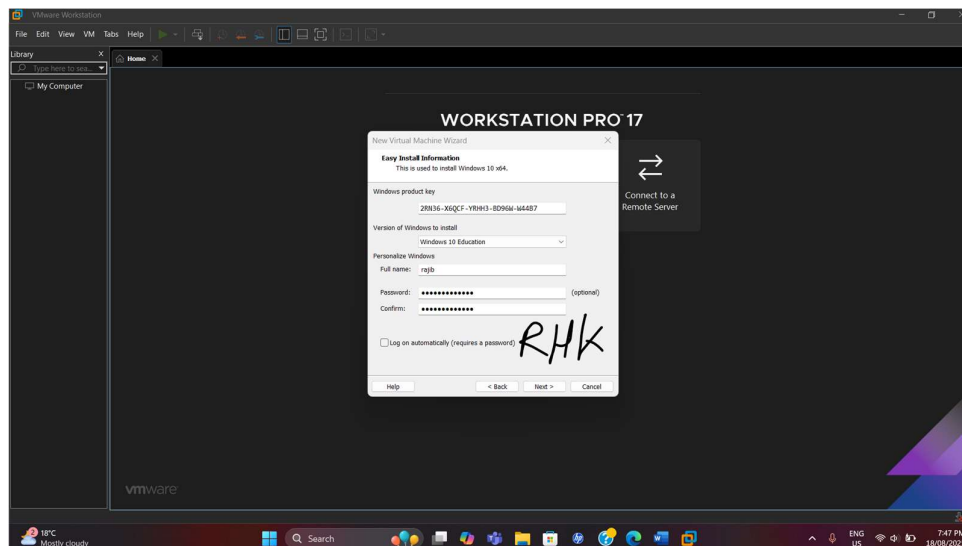
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4. Follow Installation Steps:

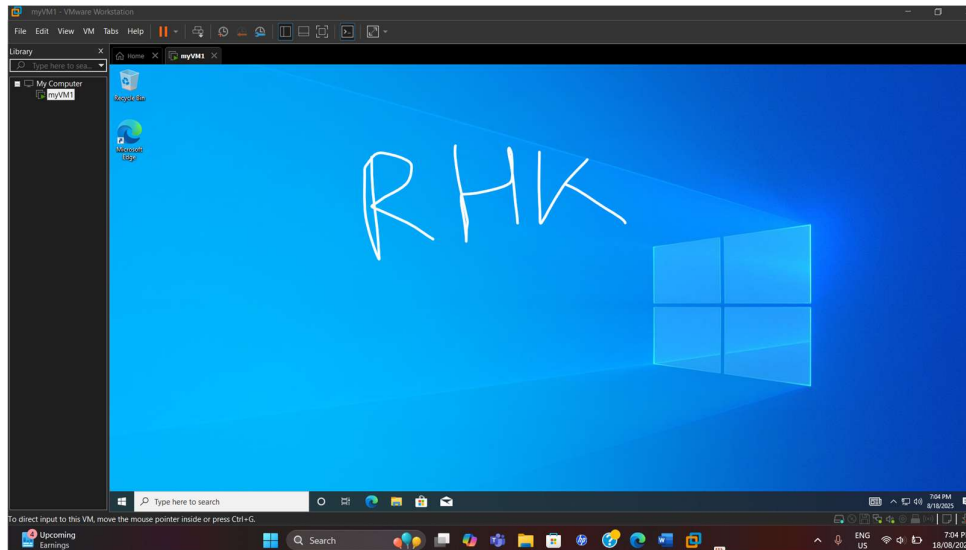
- Create a user account.
- Set a password.
- Complete the initial Windows 10 or 11 setup.

(Add screenshot of this step below)





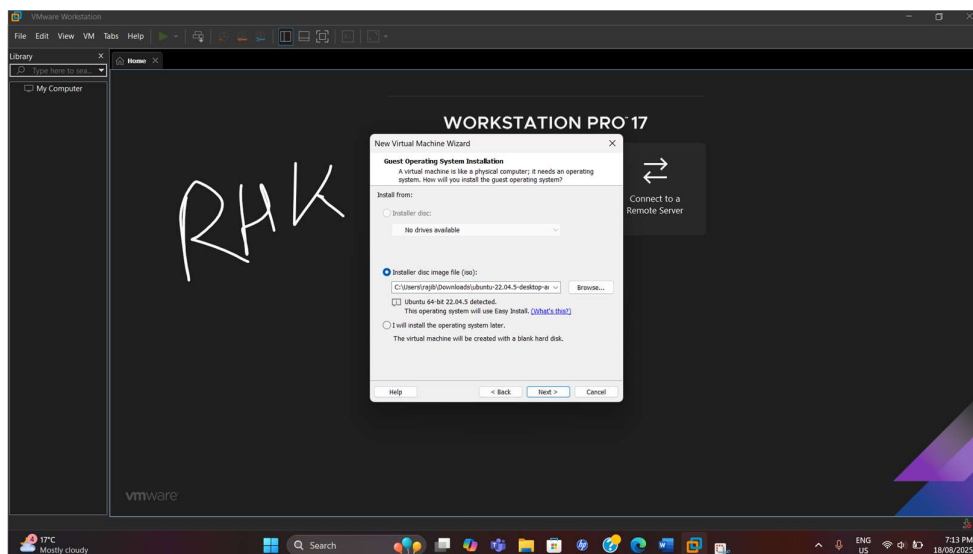
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Create an Ubuntu Linux Virtual Machine

1. Open VMware/VirtualBox and select **Create a New Virtual Machine**.
2. Choose **"Install from ISO"** and select the **Ubuntu ISO** file.
3. **Allocate System Resources:**
 - o **RAM:** Minimum **2GB** (4GB recommended).
 - o **CPU Cores:** At least **2 cores**.
 - o **Storage:** Allocate at least **25GB of disk space**.

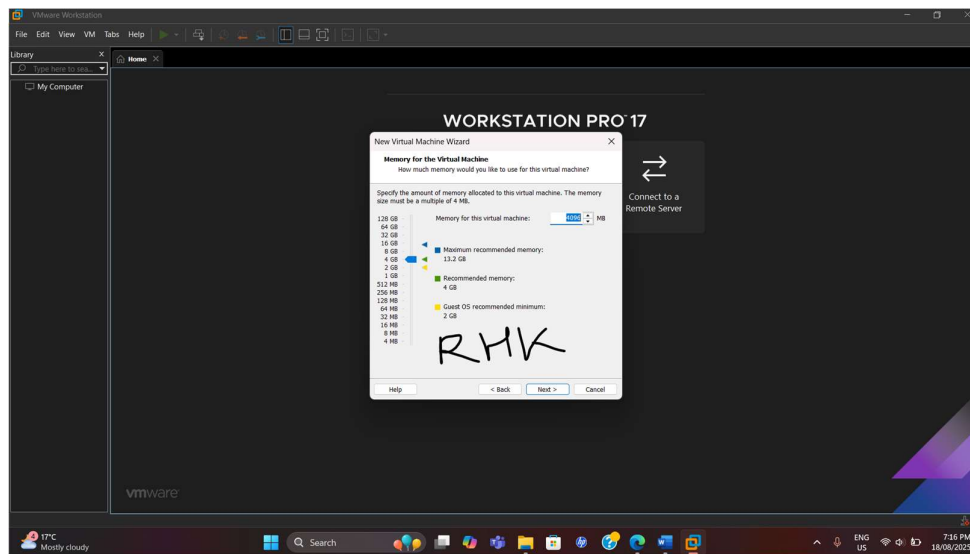
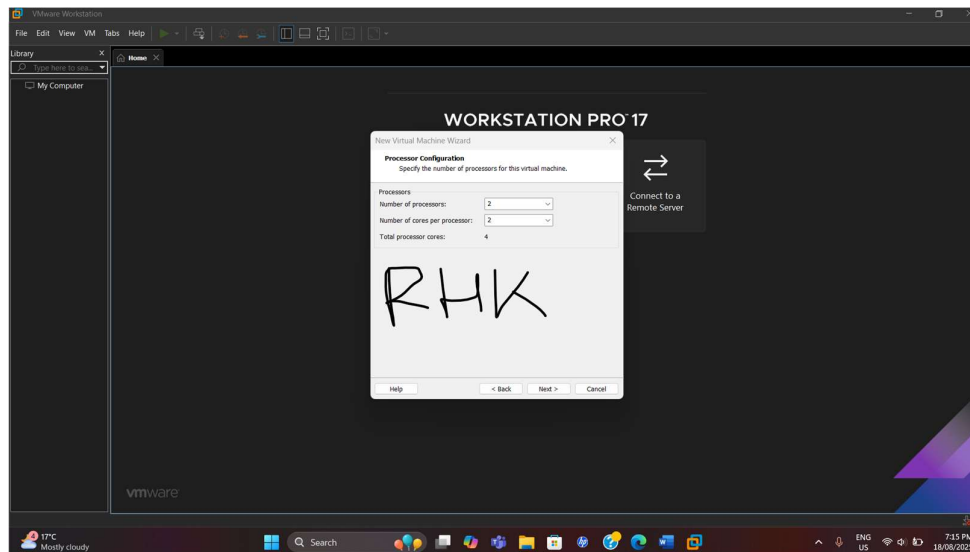
(Add screenshot of this step below)





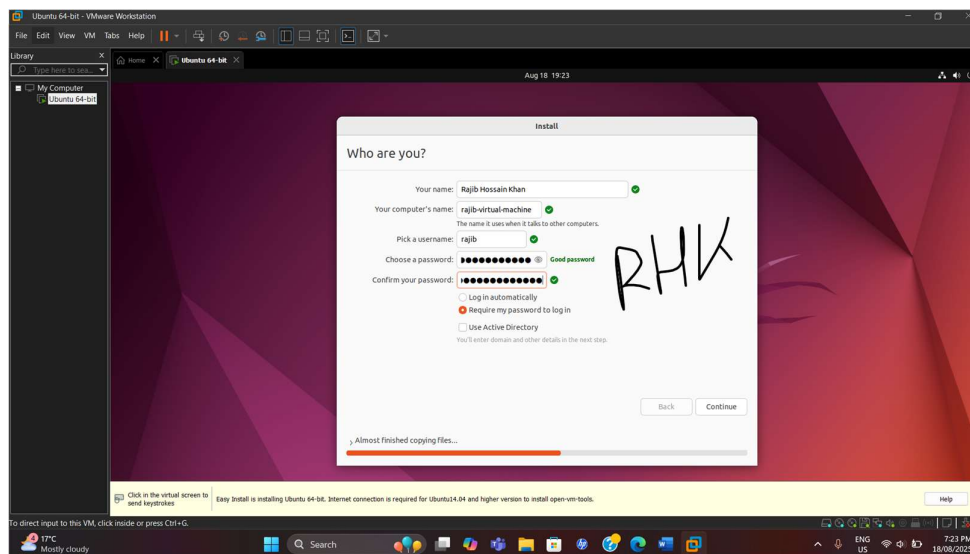
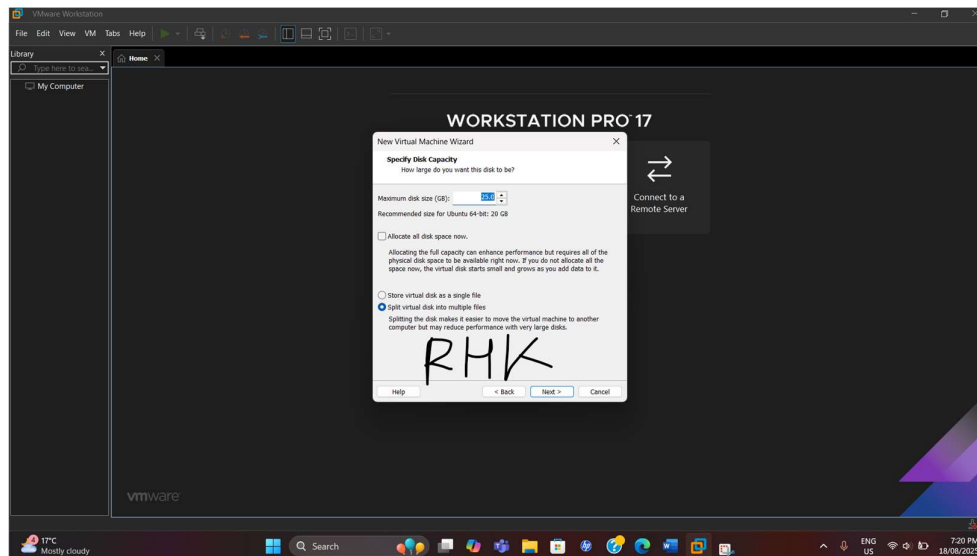
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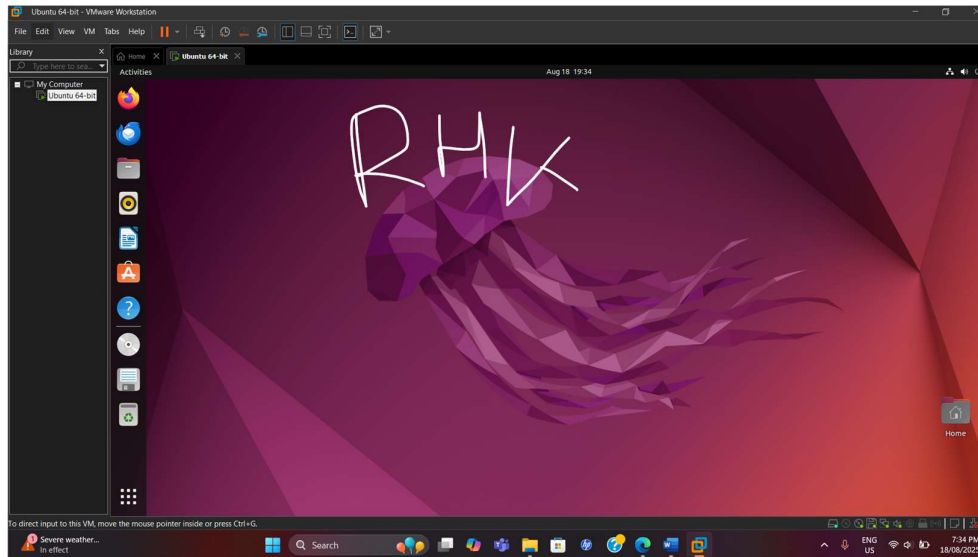
4. Follow Installation Steps:

- Select "Install Ubuntu".
- Set up a **username and password**.
- Enable **third-party drivers** (optional).
- Complete the installation and restart the VM.



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Step 4: First Boot and Initial Setup

1. Start the Windows 10 or 11 Virtual Machine:

- Log in with the username and password created.
- Perform initial system updates (optional).

2. Start the Ubuntu Linux Virtual Machine:

- Log in and explore the **Linux desktop environment**.
- Open the **terminal** (Ctrl + Alt + T) and run:

sh

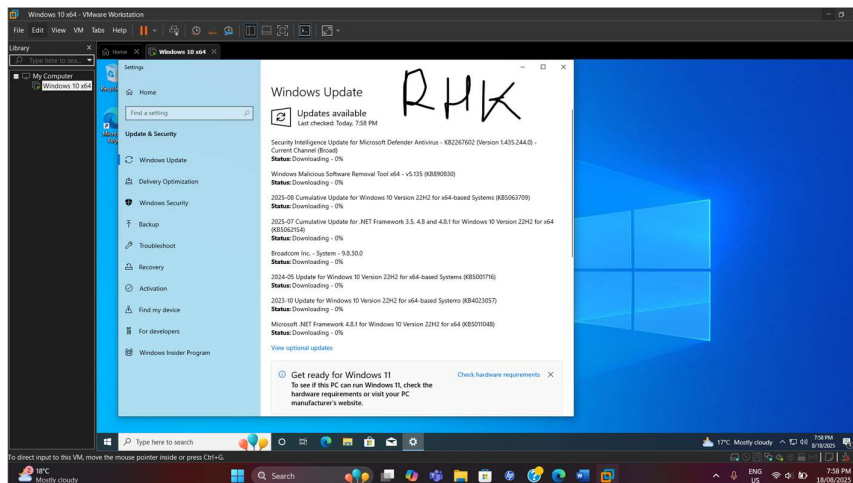
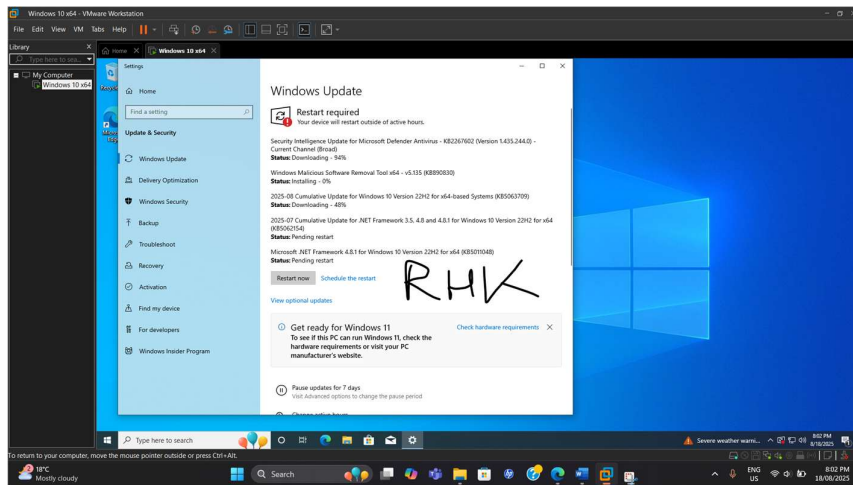
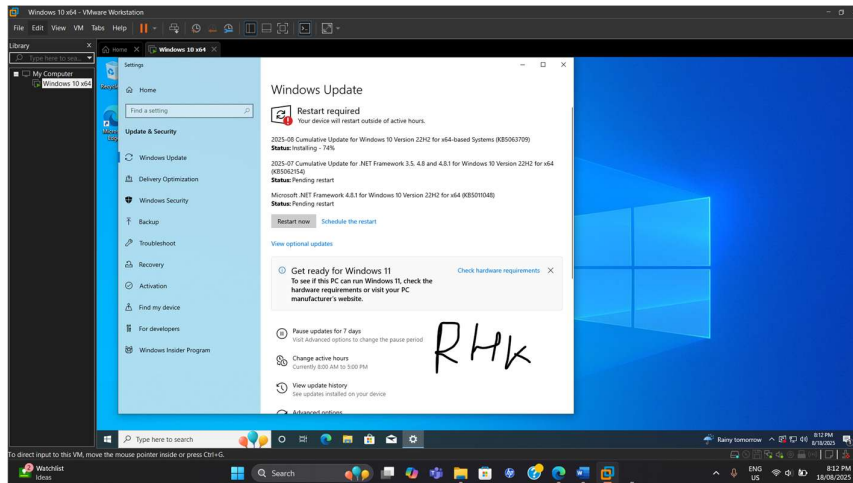
sudo apt update && sudo apt upgrade -y

- This updates the system to the latest packages.

(Add screenshot of this step below)



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