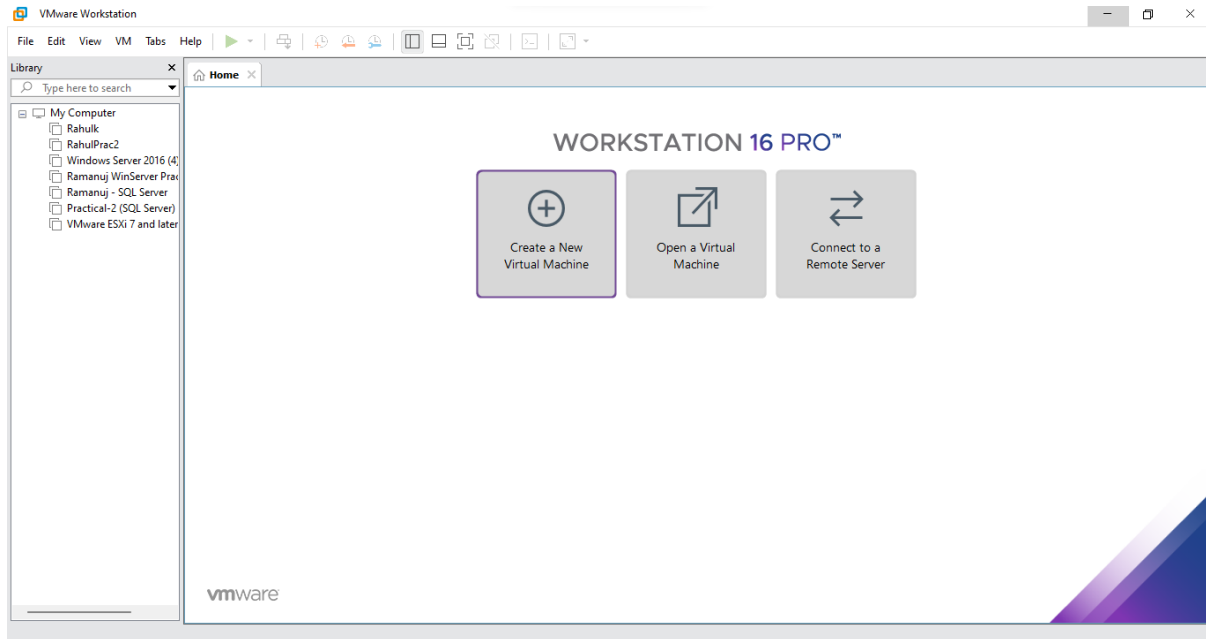**Practical 1:** Deploying and Configuring Virtual Machines
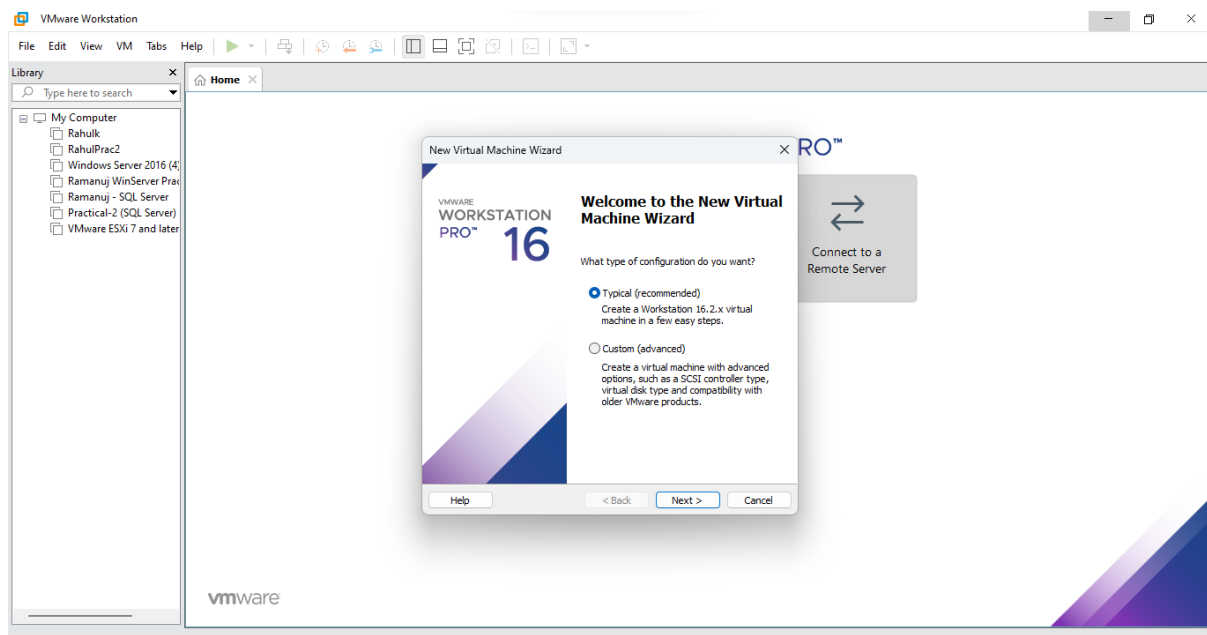1. Access Your Student Desktop
2. Create a Virtual Machine
3. Install VMware Tools
4. Copy Files to the Desktop

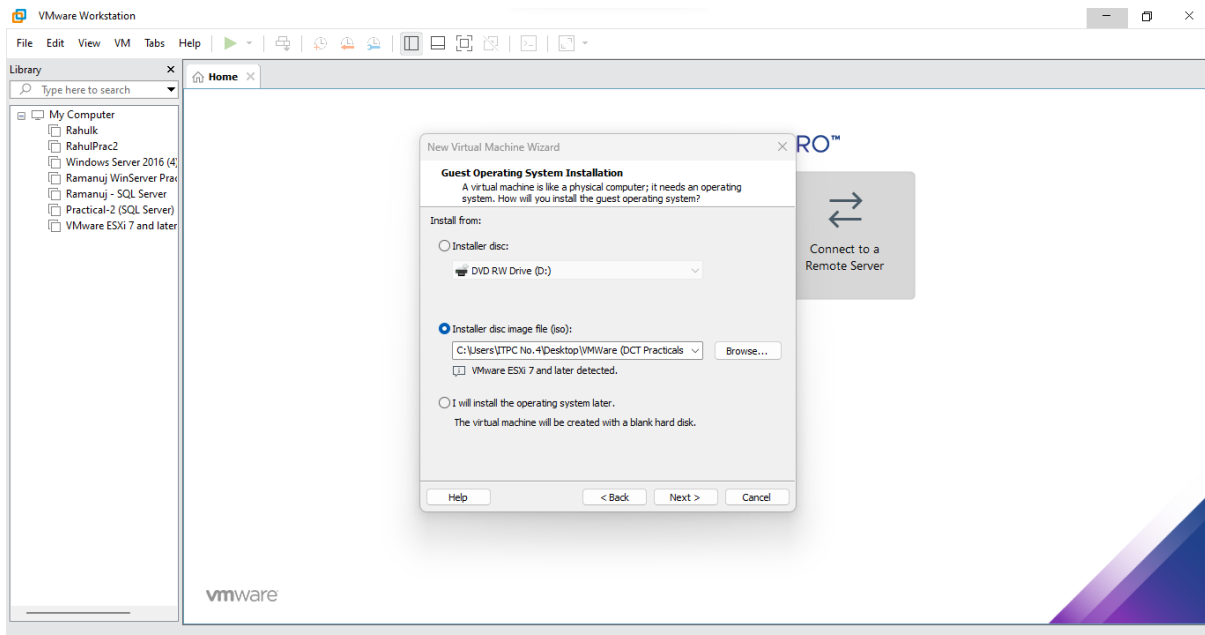- **Step 1:** Create new virtual machine in VMware Workstation

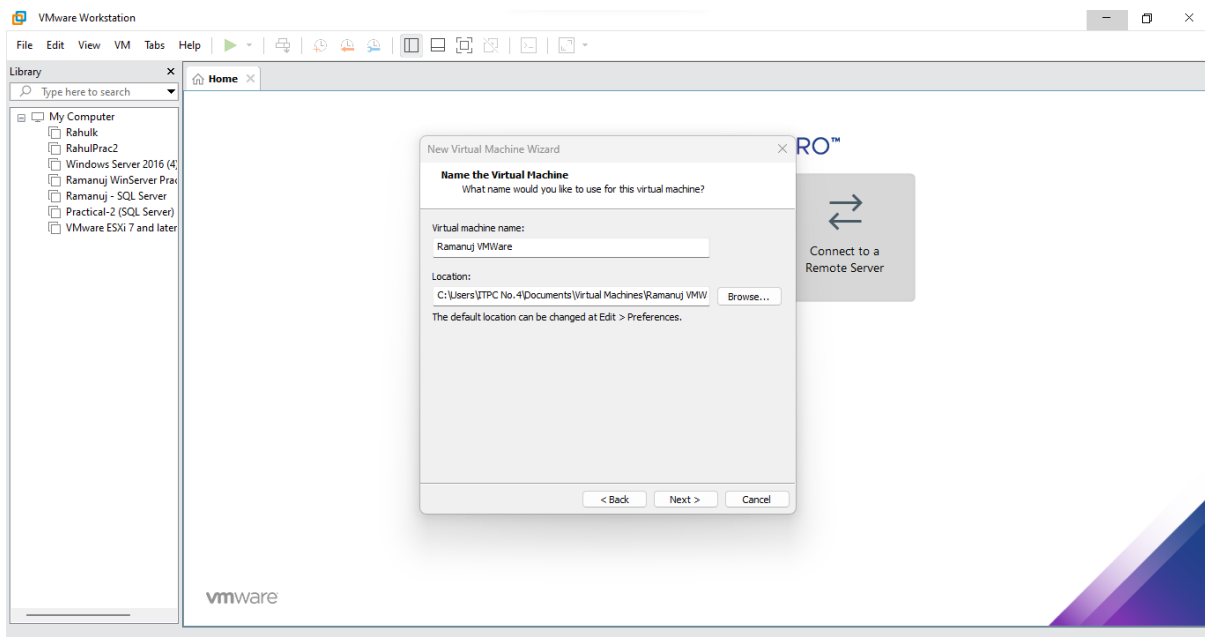   Click on **Create new virtual machine**
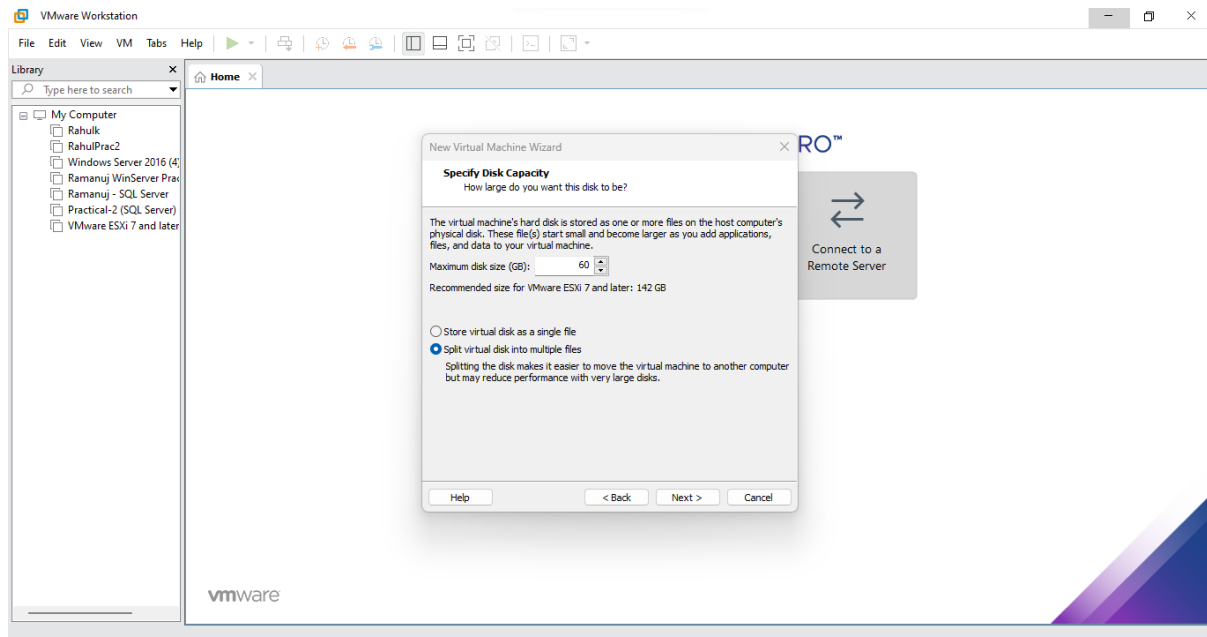

- Select **Typical** and Click **Next**

- Select **Installer Disc Image file** and Click on **Browse** (Find the VMvisor iso file and select it) then Click **Next**
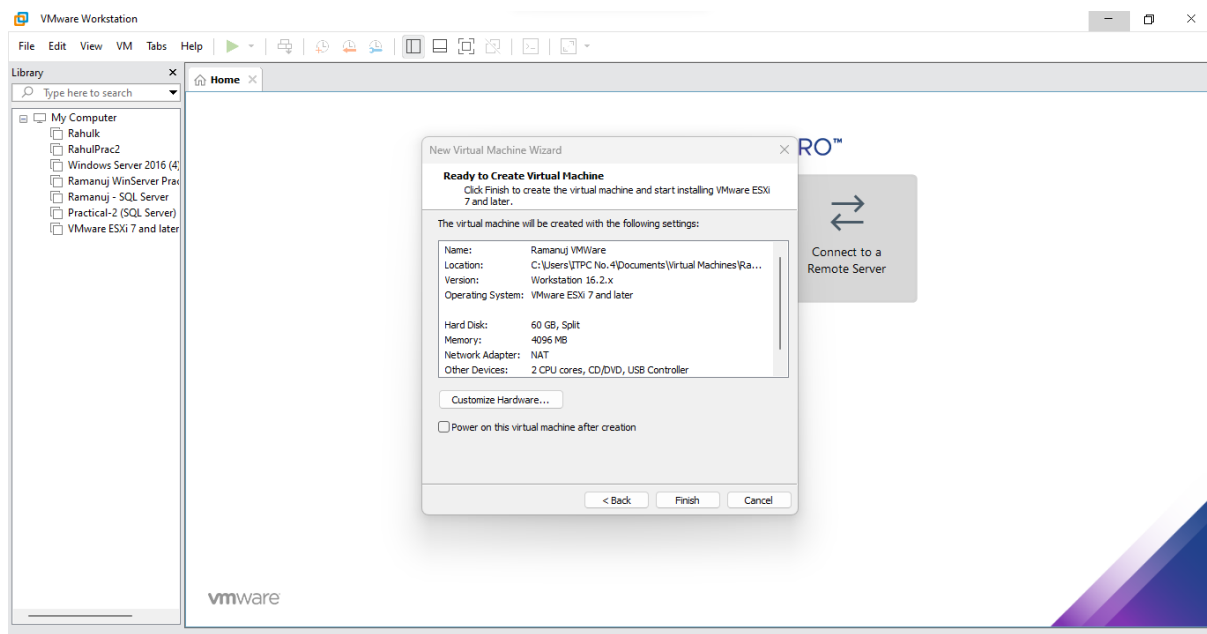

- Give the virtual machine a name (Here it is Ramanuj VMWare) and Click **Next**
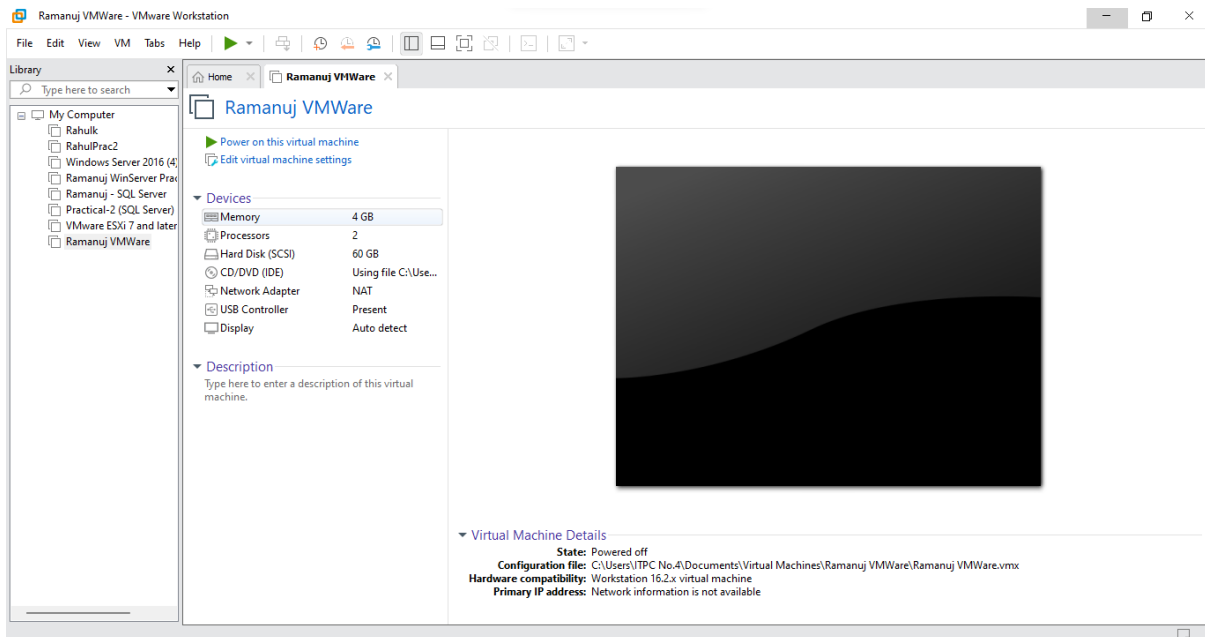
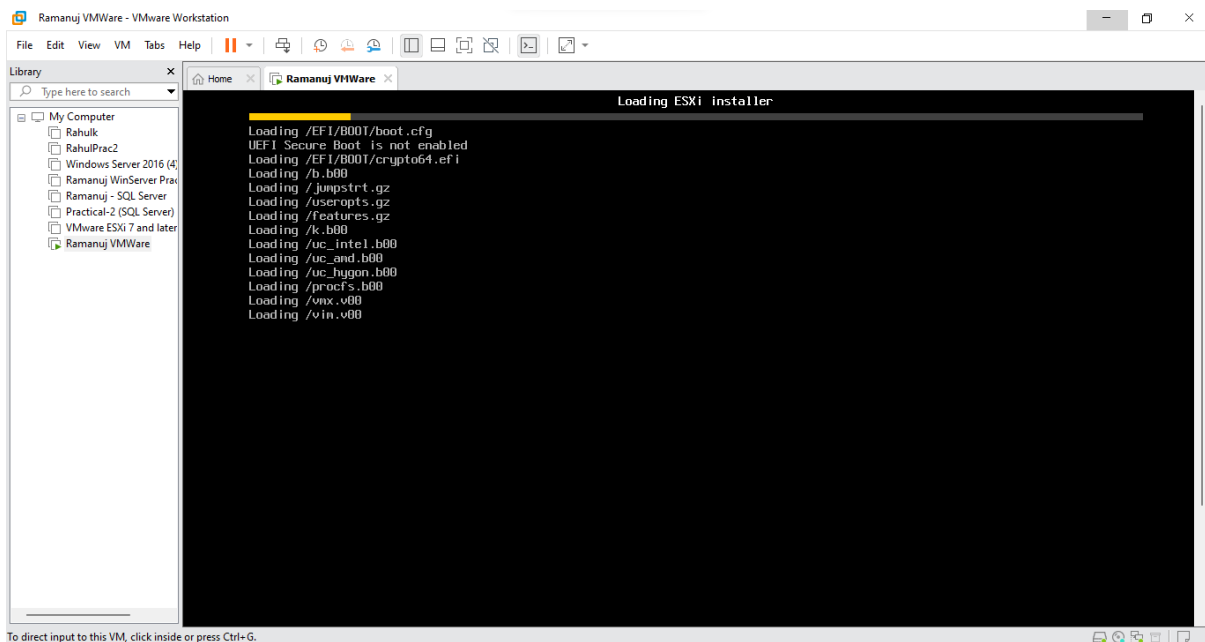- Select **Split virtual disk into multiple files** and Click **Next**
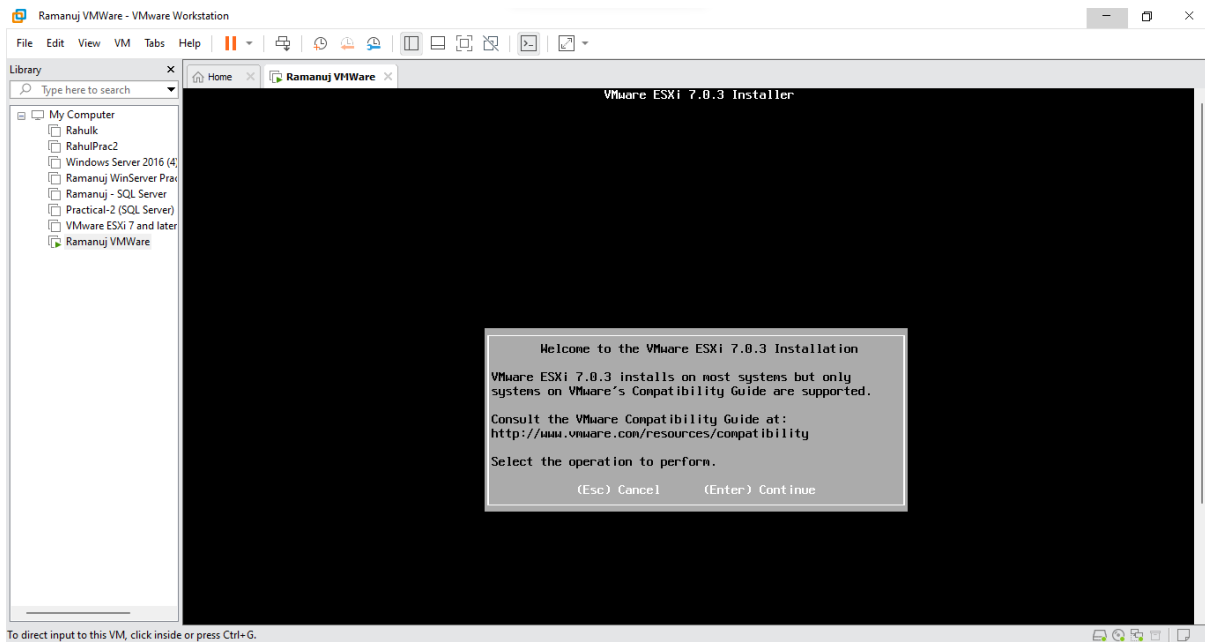

- Click on **Finish**

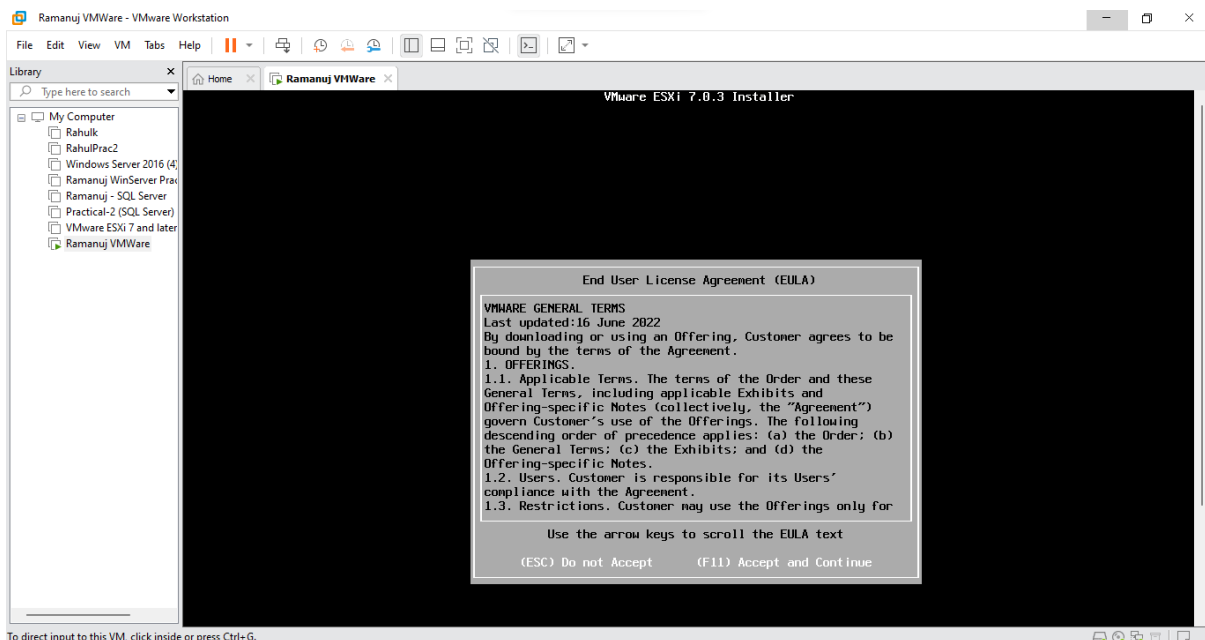- Your Virtual Machine is created and Click on **Power ON this virtual machine**

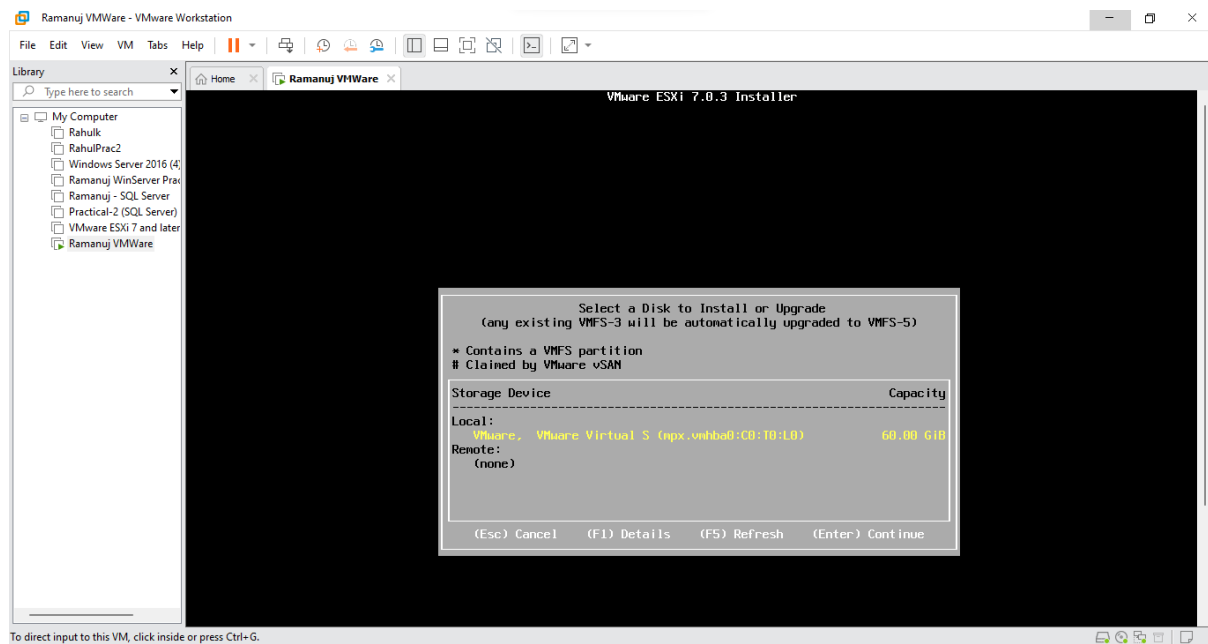- After powering on ESXi will start installing

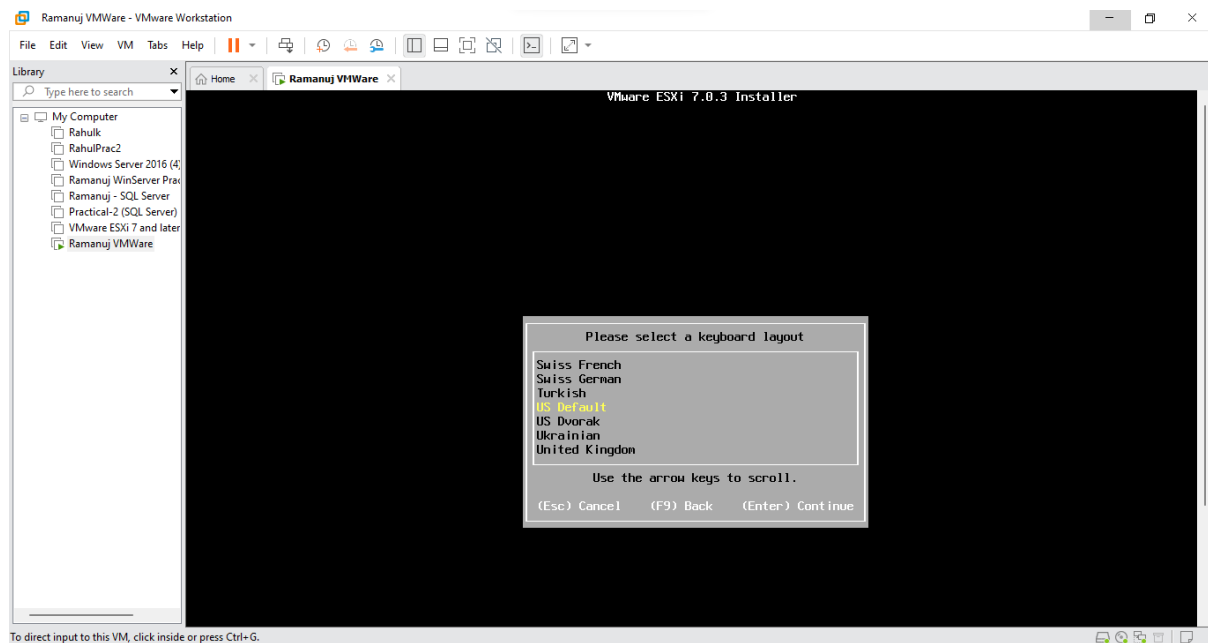- Now it will enter the ESXi Setup, Press **Enter**

- Press **F11** to Accept and Continue

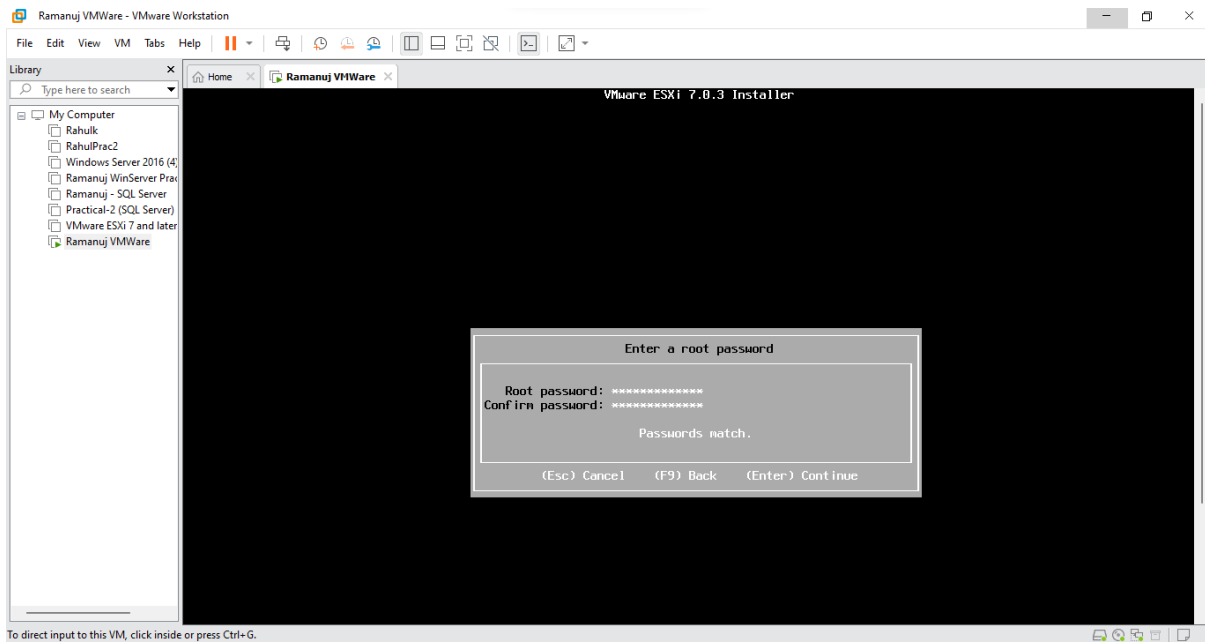- Press **Enter**
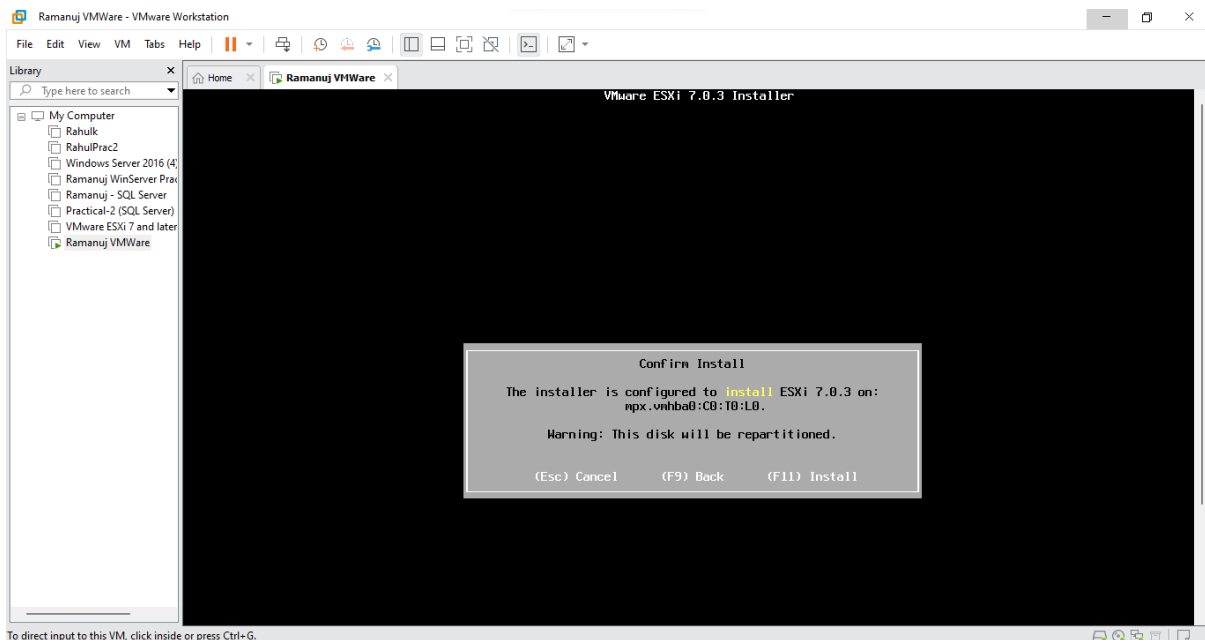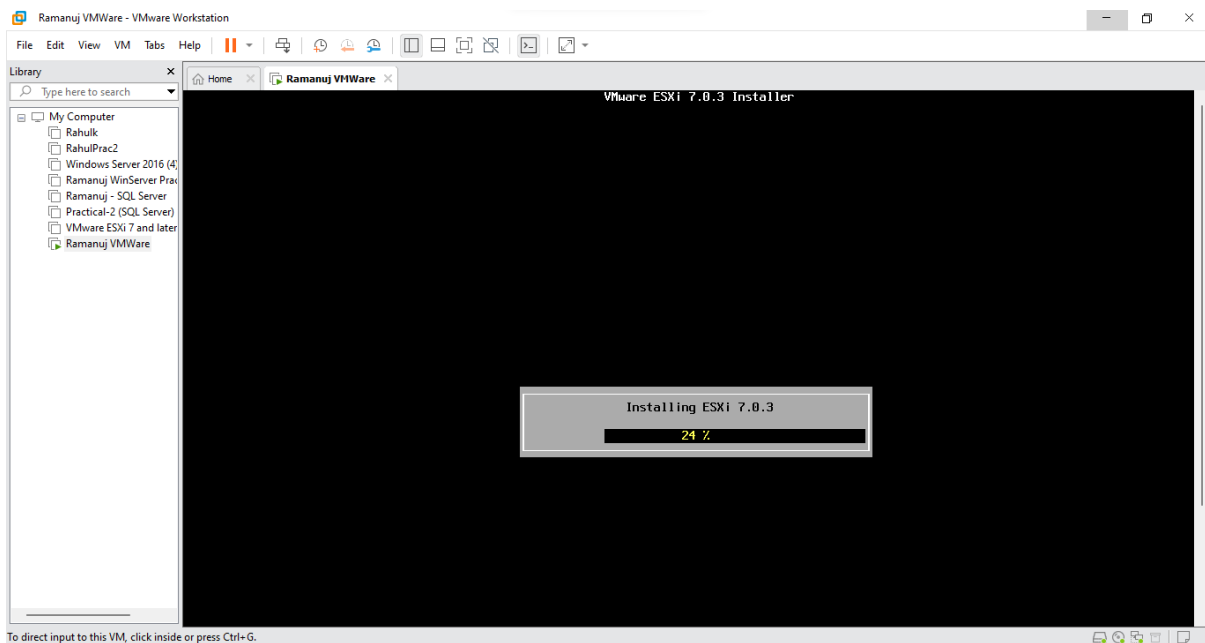

- Press **Enter**

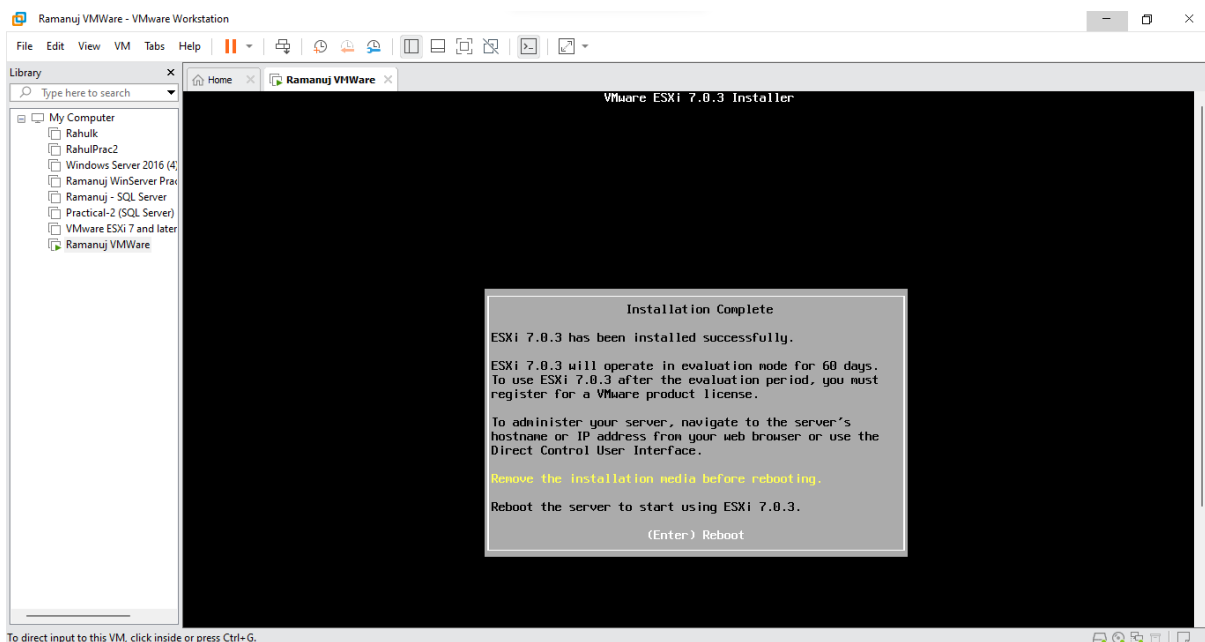- Type in a root password and Press **Enter**
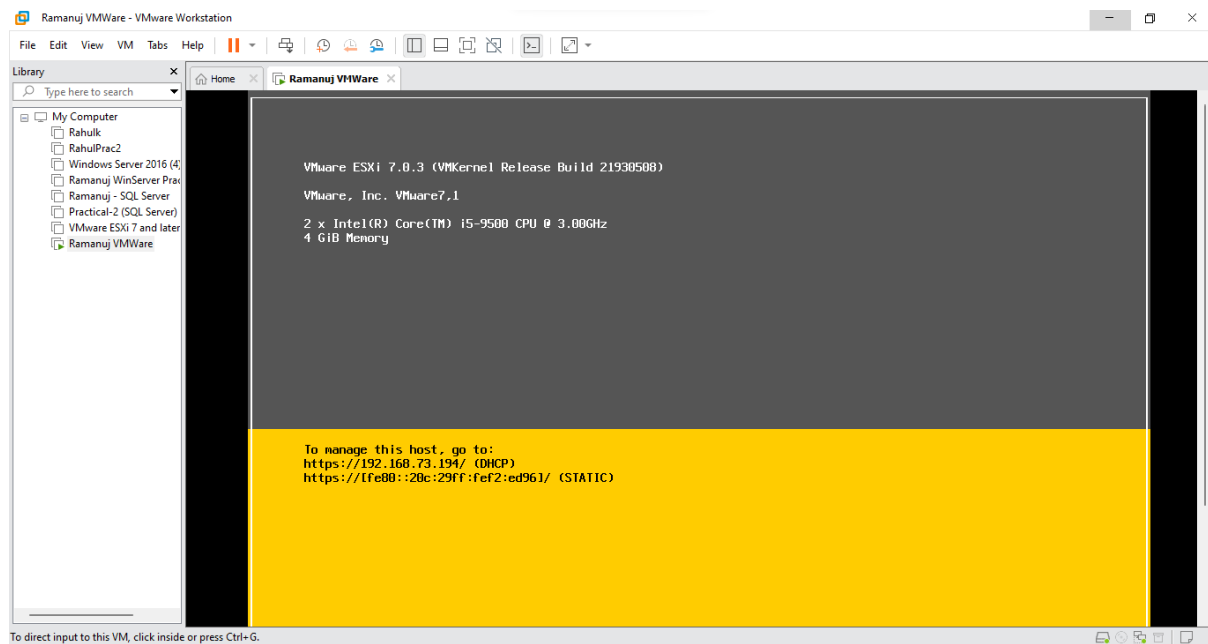

- Press **F11** to Install ESXi

- ESXi will now install onto the Virtual Machine which will prompt a restart

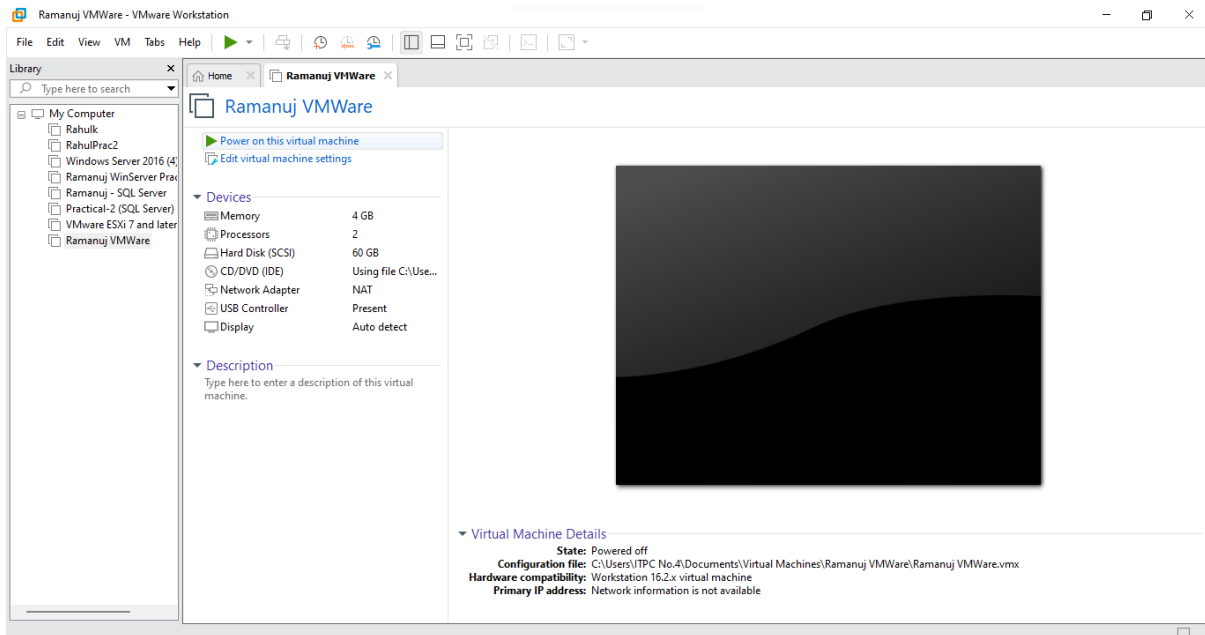

- Press **Enter** to Reboot

- VMware ESXi has been successfully installed onto your Virtual Machine
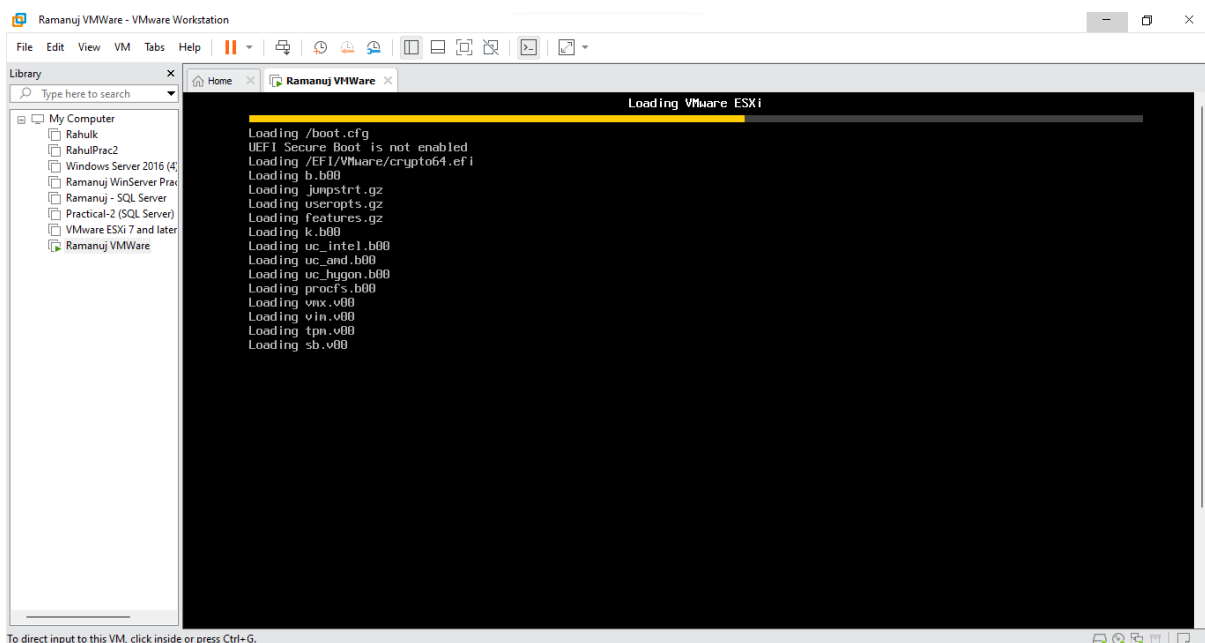
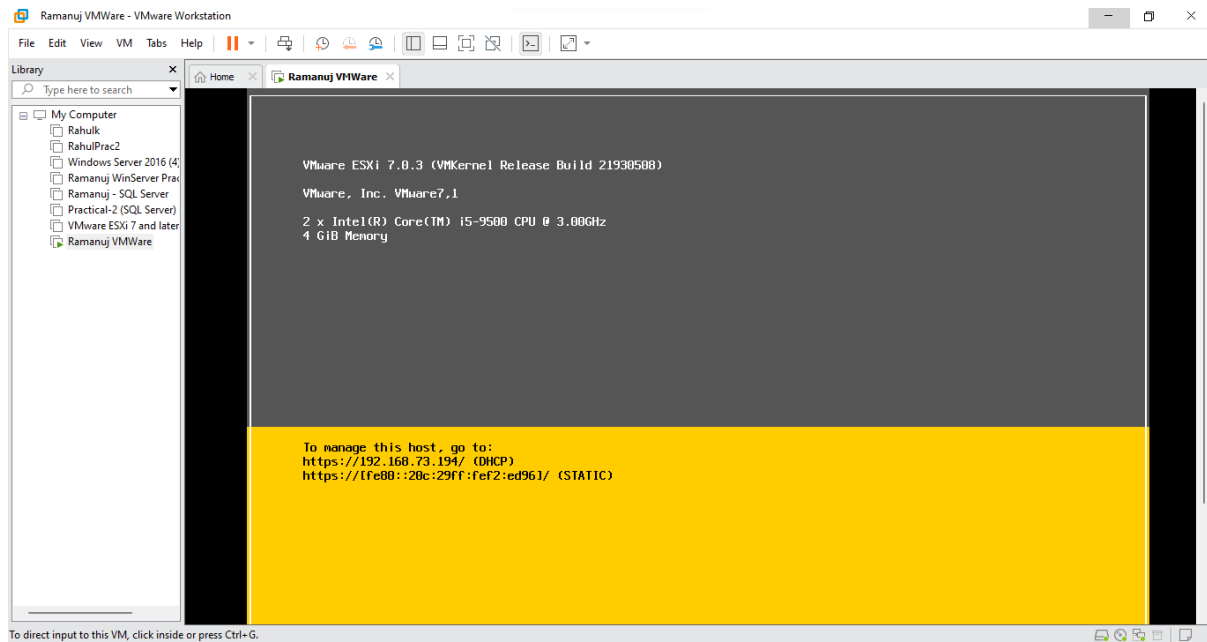Note: we will use the same Virtual Machine

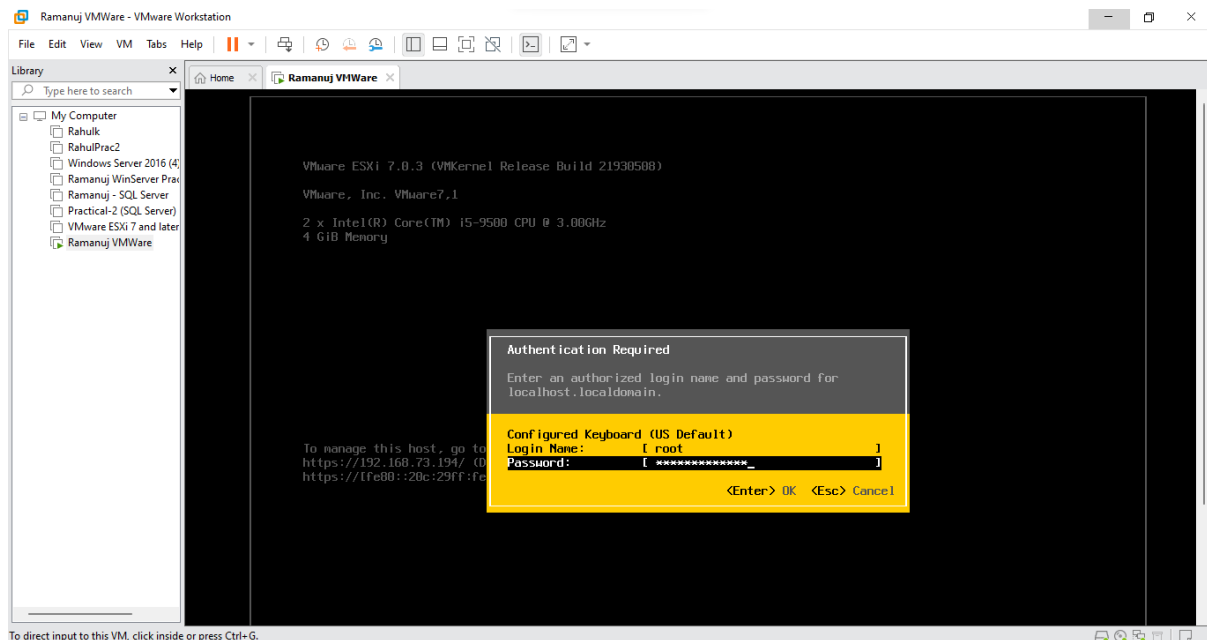- In VMware Workstation Click on Power on this Virtual Machine
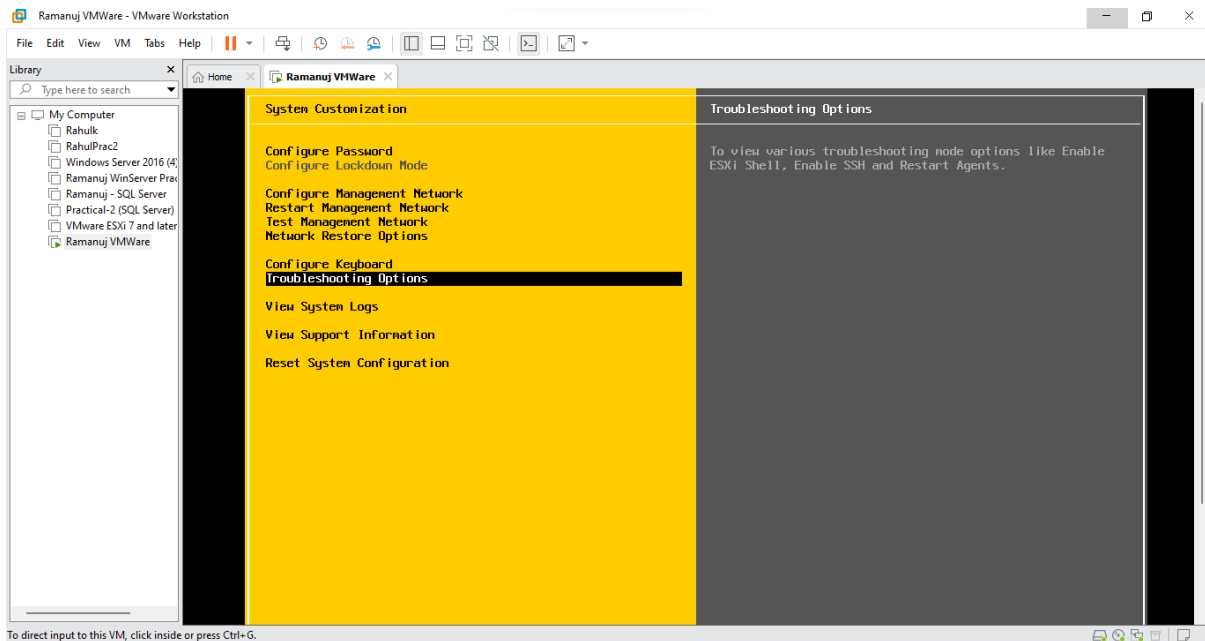

- The virtual machine is starting

- VMware ESXi is **ON**

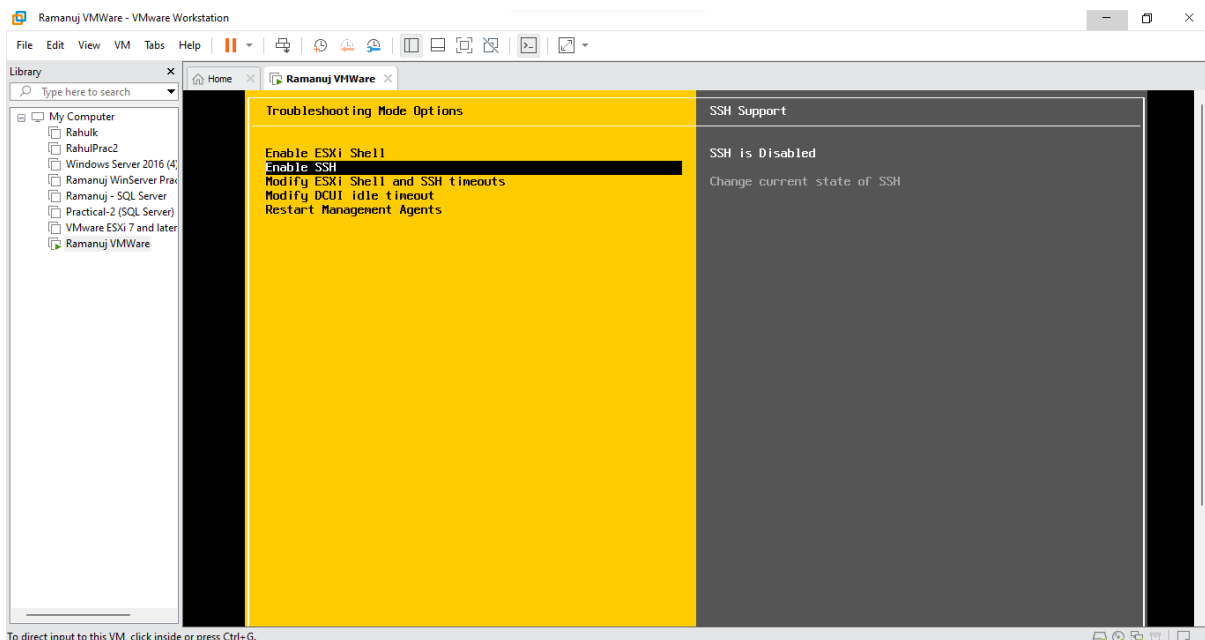- To configure SSH press **F2** and enter your password then Press **Enter**
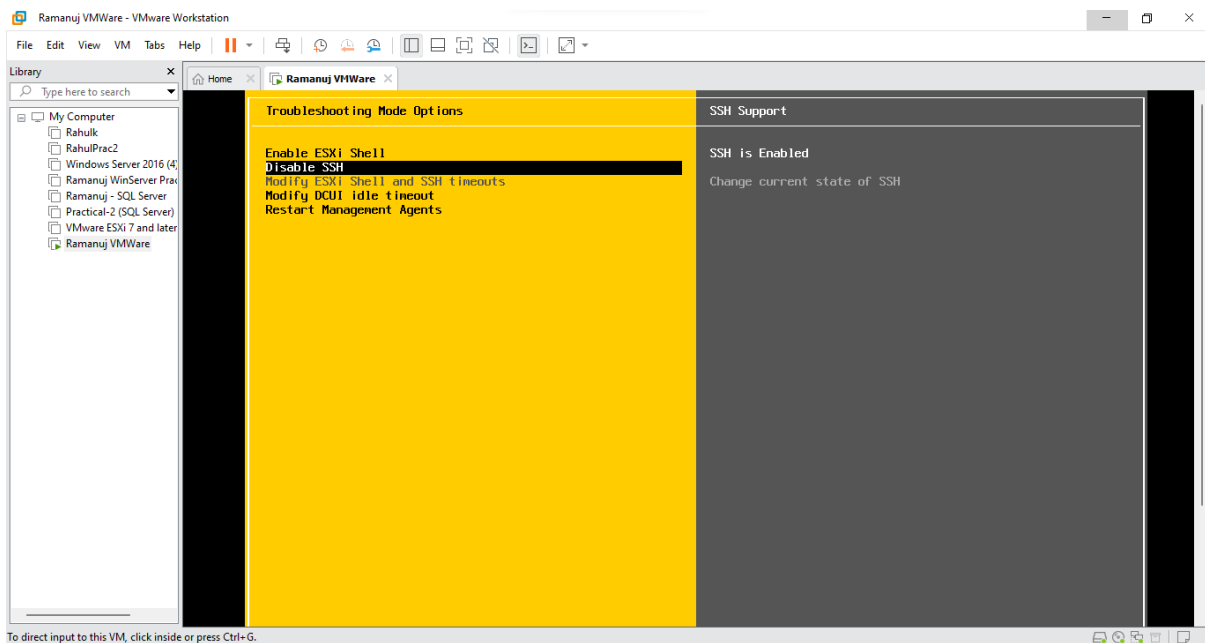
- You will enter System Customization, within it Select **Troubleshooting Options** and Press **Enter**

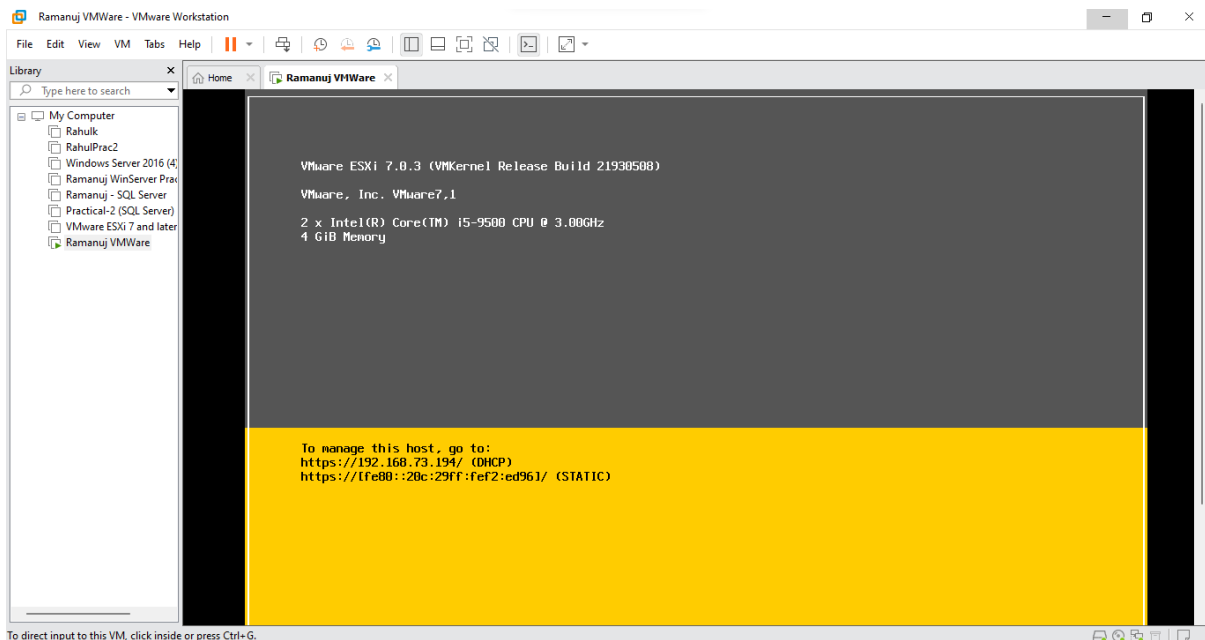- Within Troubleshooting Options Select **Enable SSH** and Press **Enter**

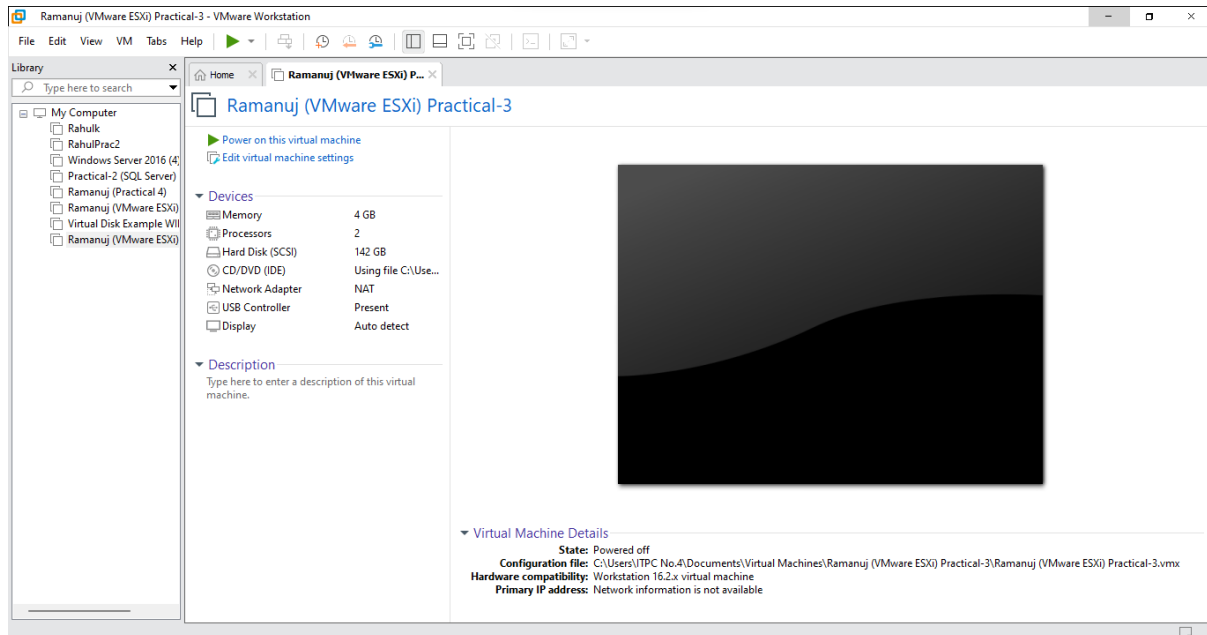- After pressing Enter you will see under SSH Support it will say " **SSH is enabled**"

- After this press **Esc** twice to save and exit from settings
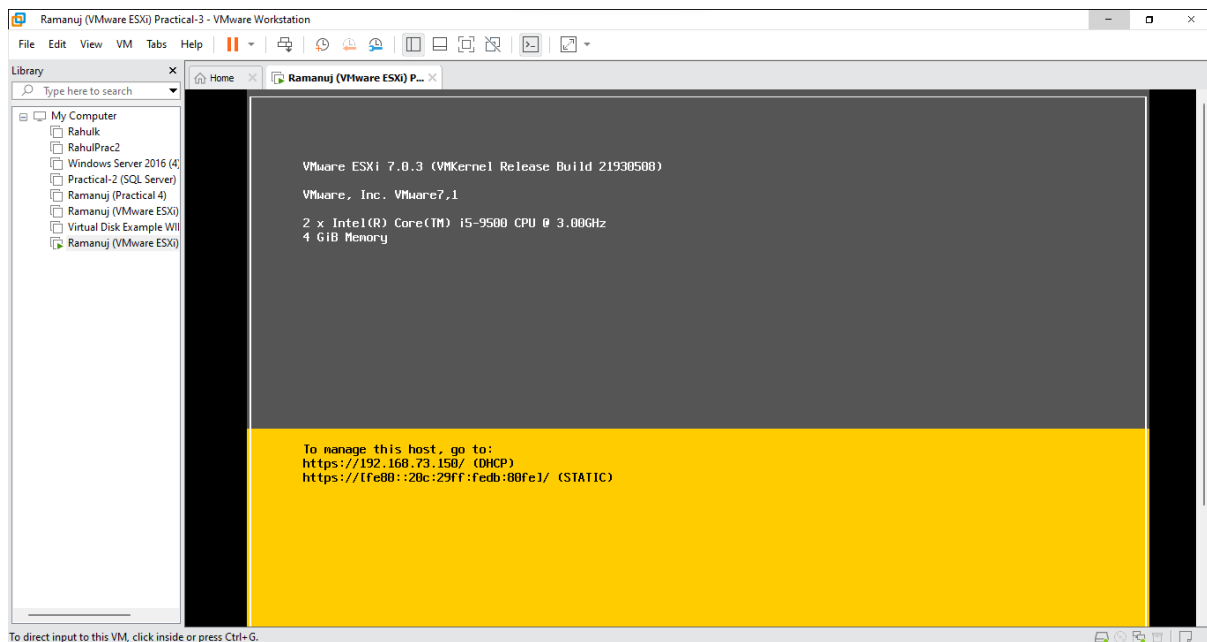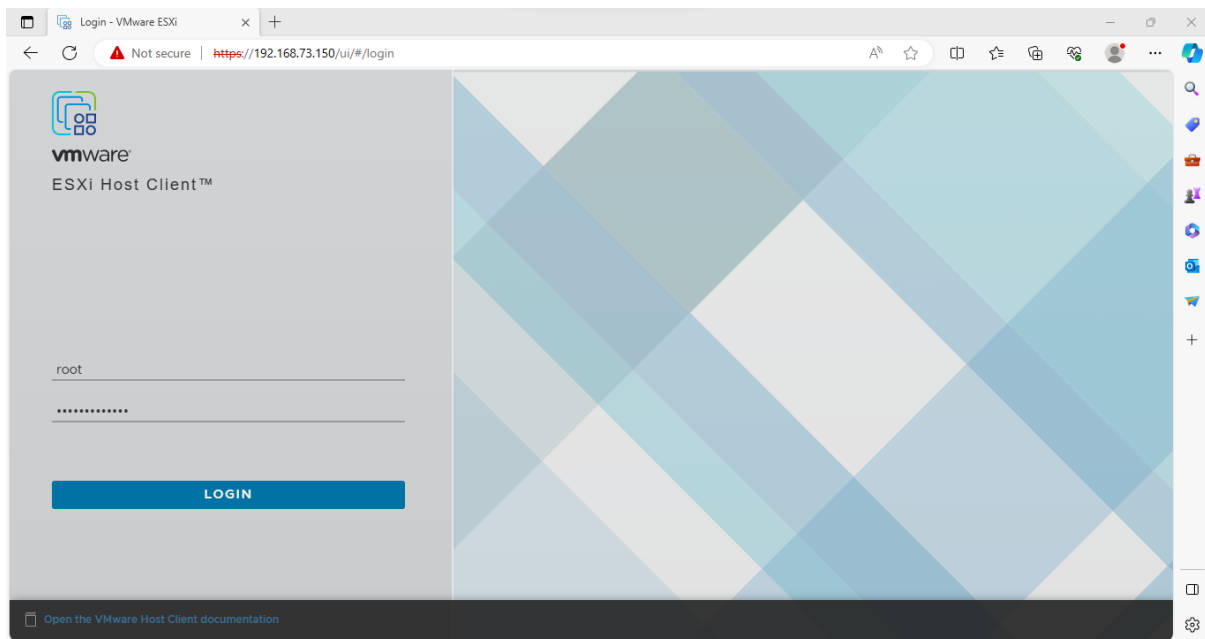
Step 1: Configuring ESXi Host Client

- We will be using the same ESXi server
- Power On the virtual machine

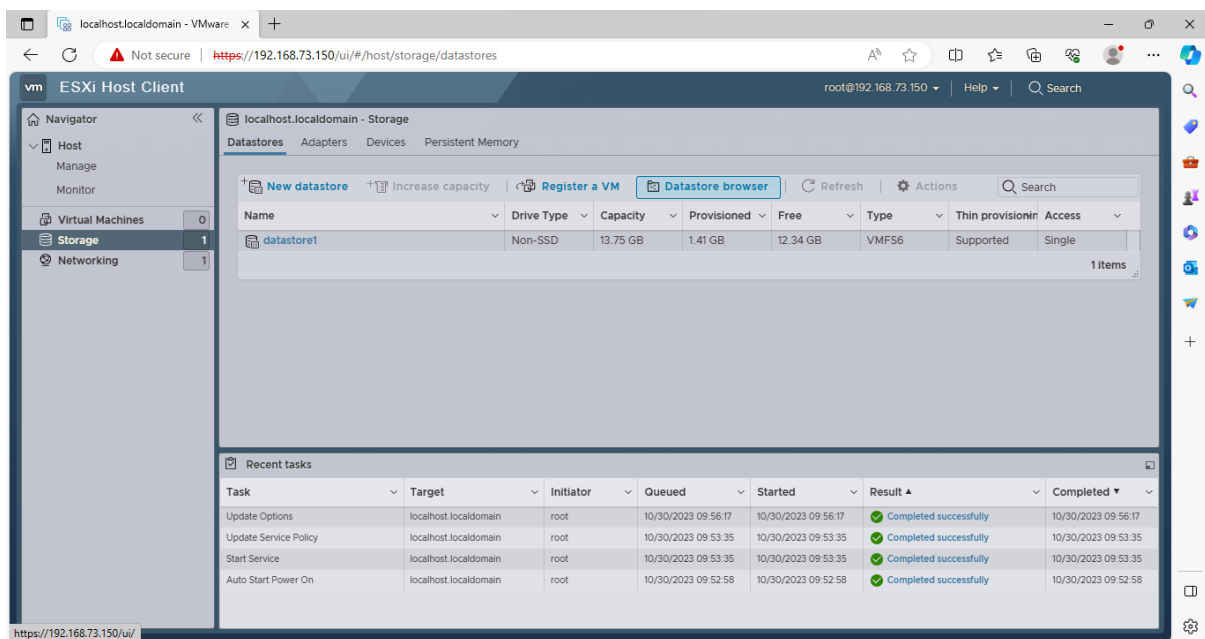- Copy the IP Address of the server and Paste it into your Web Browser
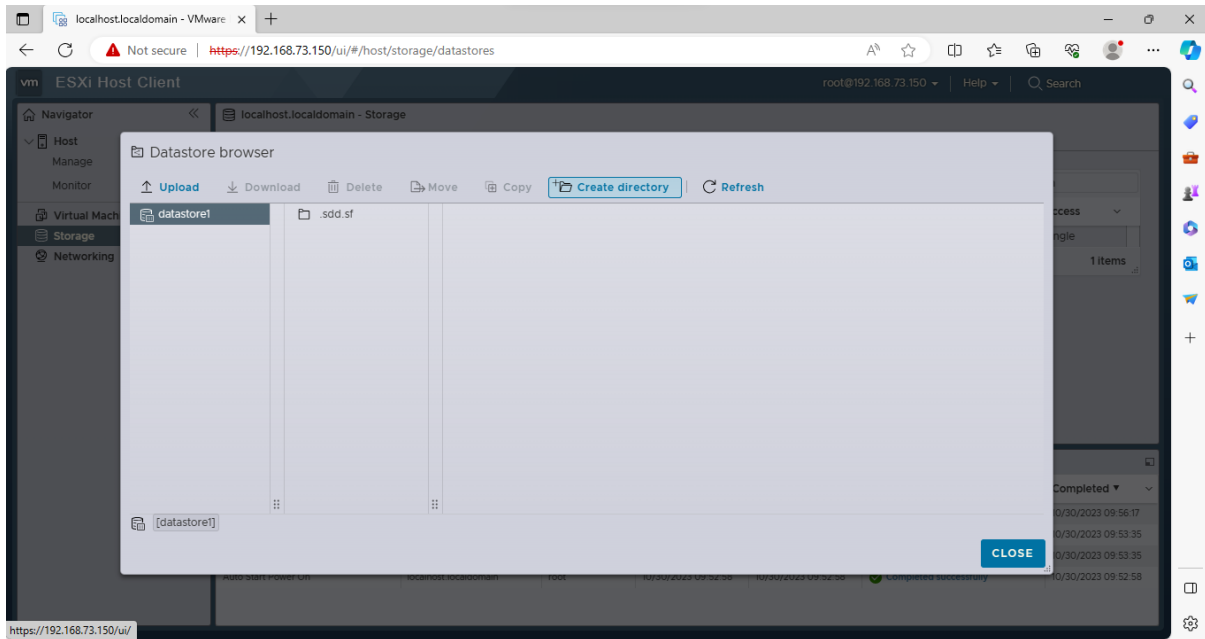
- It will show you the login page for the ESXi Host Client, enter your ESXi server credentials to access the Host Client
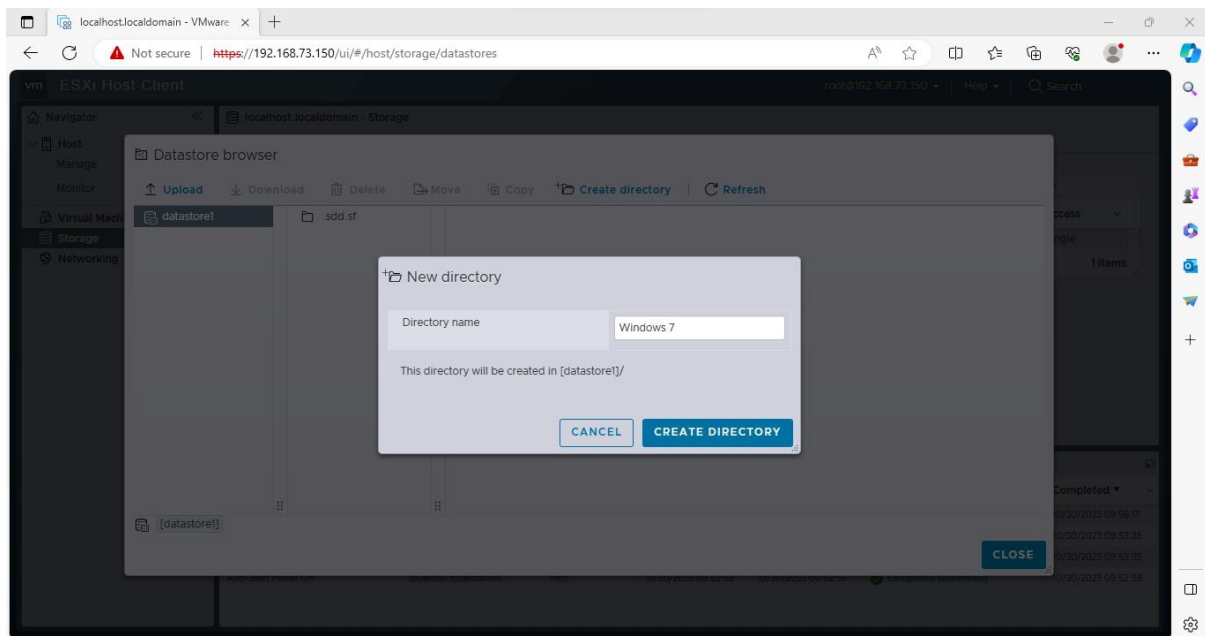

- Now before Creating a Virtual Machine we have to upload an Operating System iso file (Here we will use Windows 7)
- Within the ESXi Host Client Click on **Storage** and within Storage Click on **Datastore Browser**
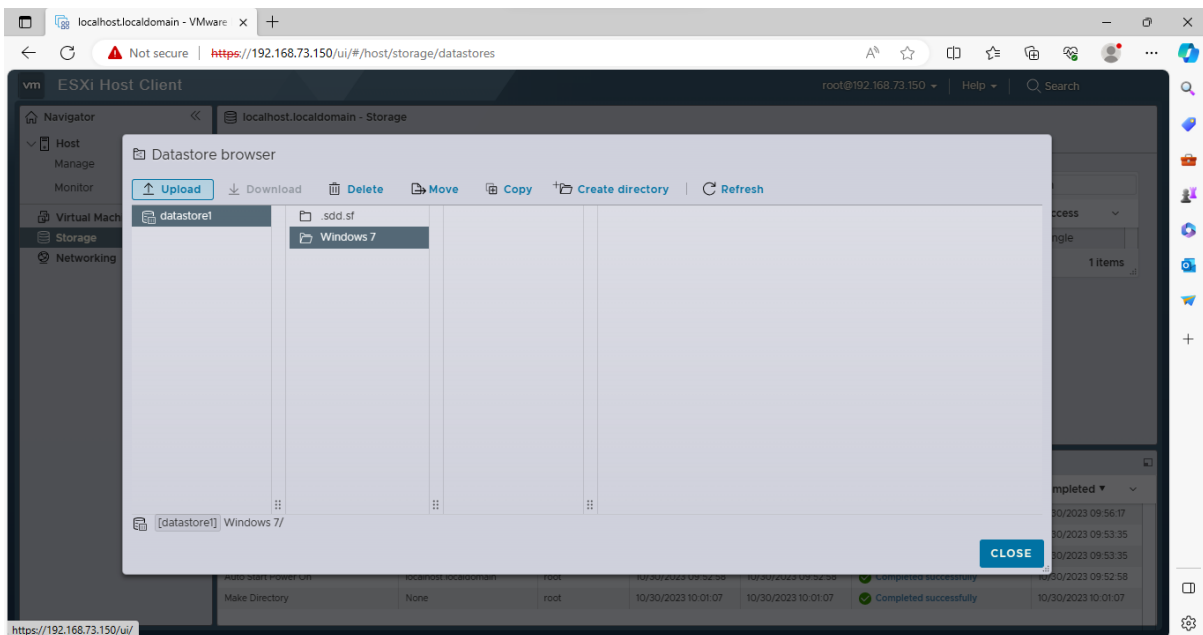
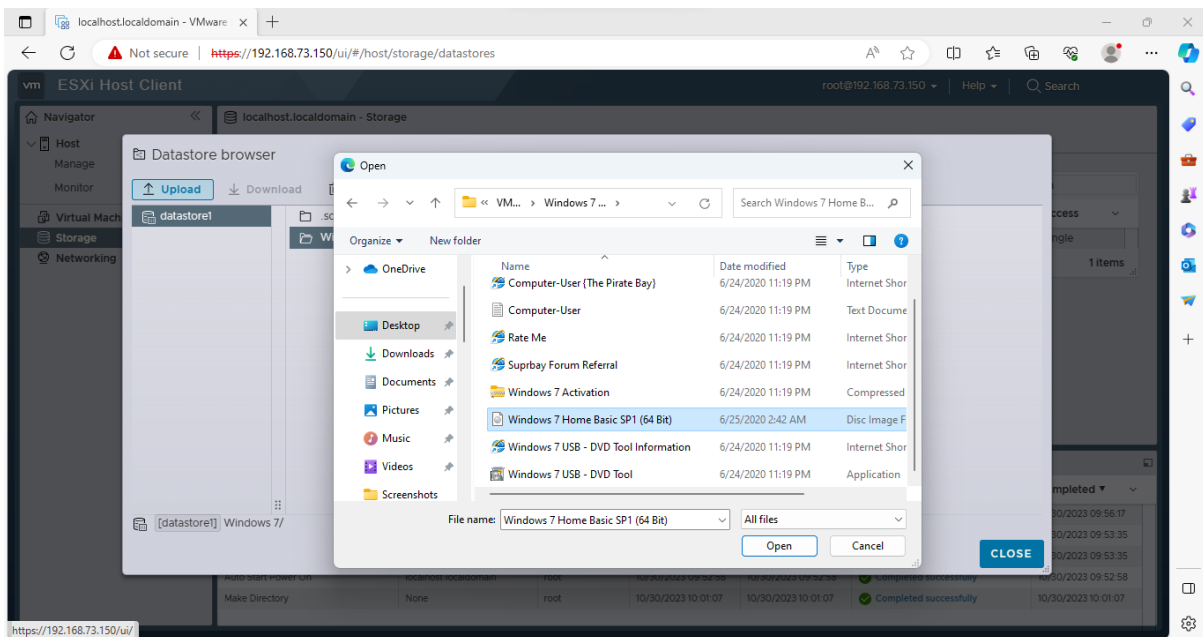- Within Datastore Browser Click on **Create Directory**

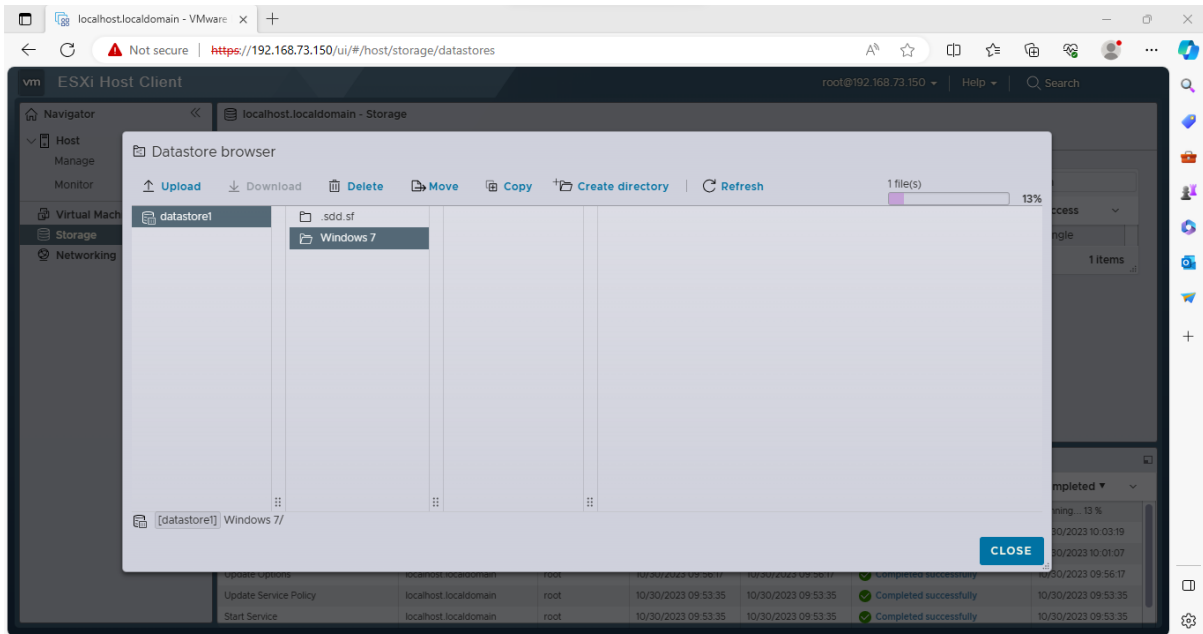- Enter a Directory Name (Here it is Windows 7) and Click on **Create Directory**

- After the new directory is created Click on **Windows 7** and Select the **Upload** option
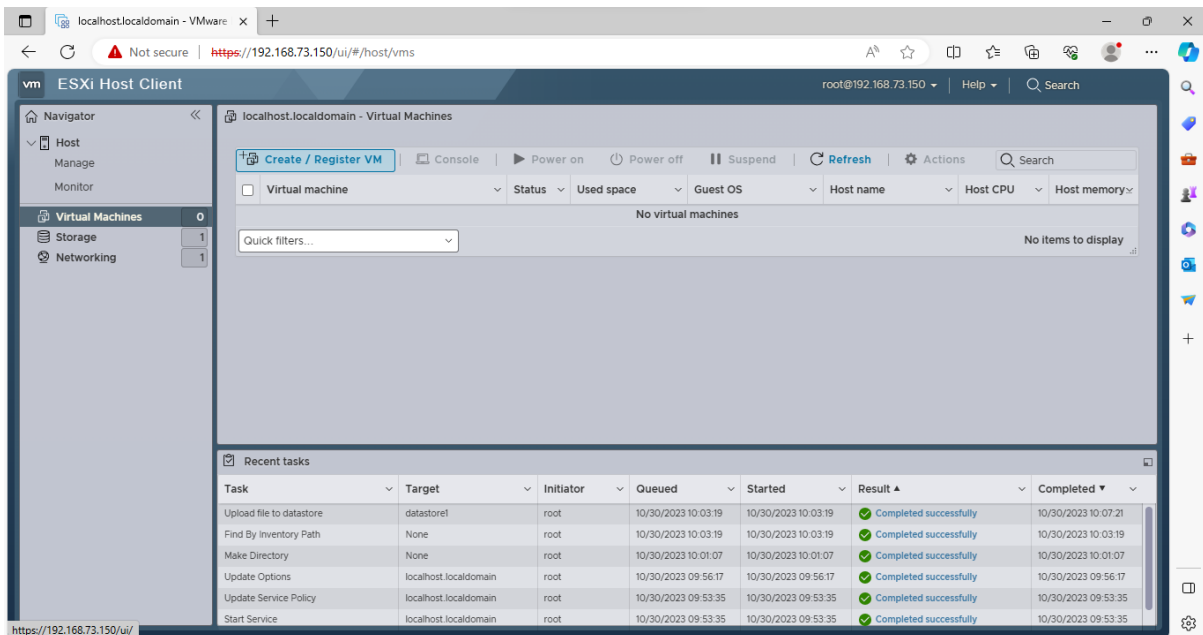

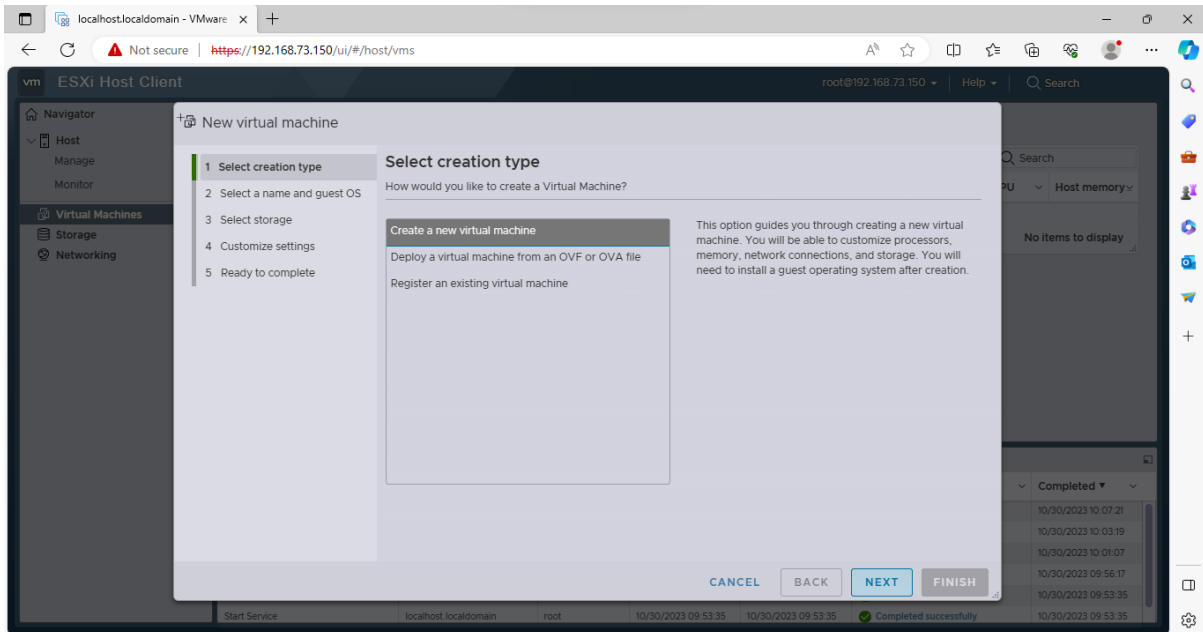- Here browse your Host Directory for the Windows iso file and Click **Open**

- The file will now upload to your Windows 7 Directory in the Datastore
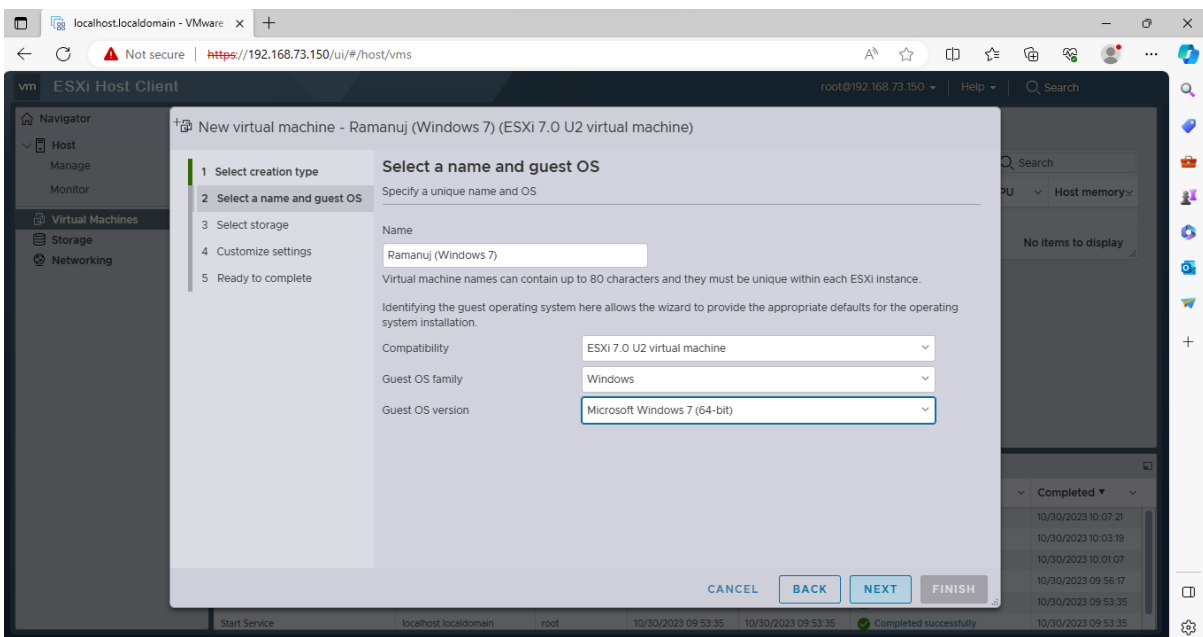

- After the upload is complete Click on **Close**
- On the Host Client Dashboard Select **Virtual Machines** and Click on **Create / Register a new VM**
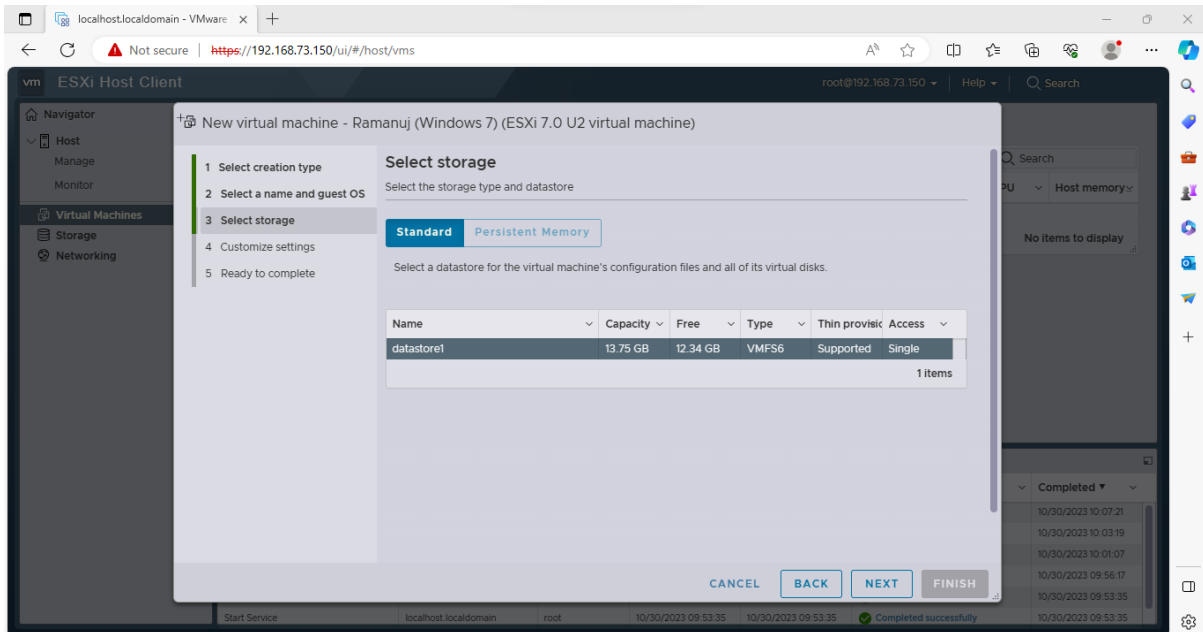
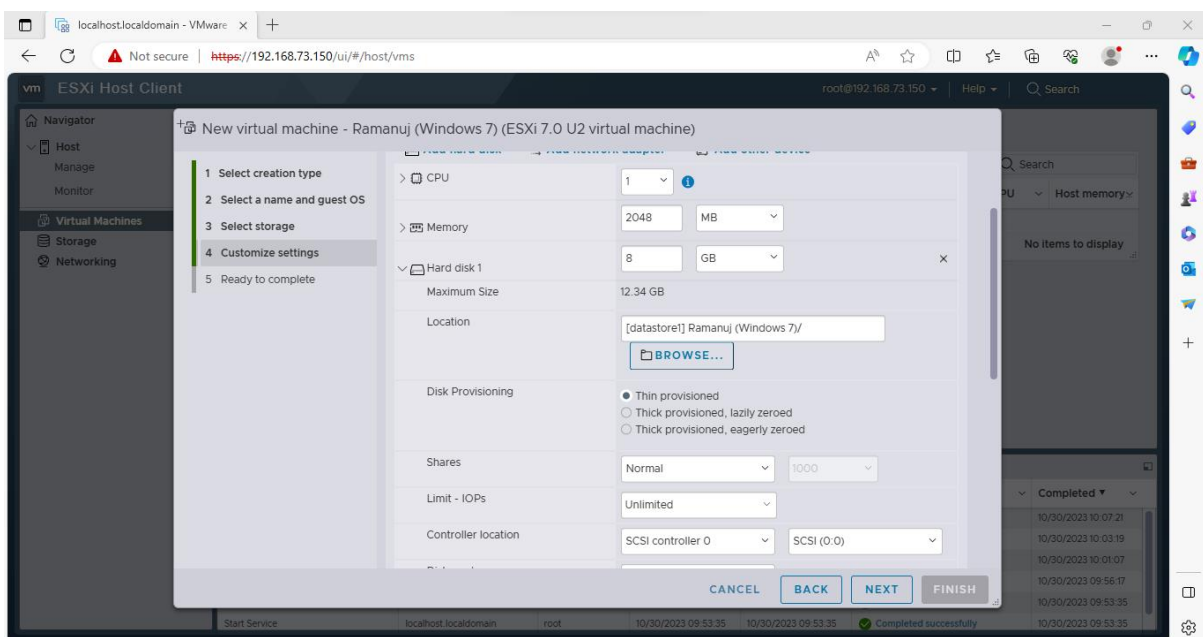- Select **Create a new virtual machine** and Click **Next**

- Enter a **Name** for the virtual machine
- Keep the Compatibility as its **default** value
- Select Guest OS Family as **Windows**
- Select Guest OS Version as **Microsoft Windows 7 (64-bit)** and Click **Next**
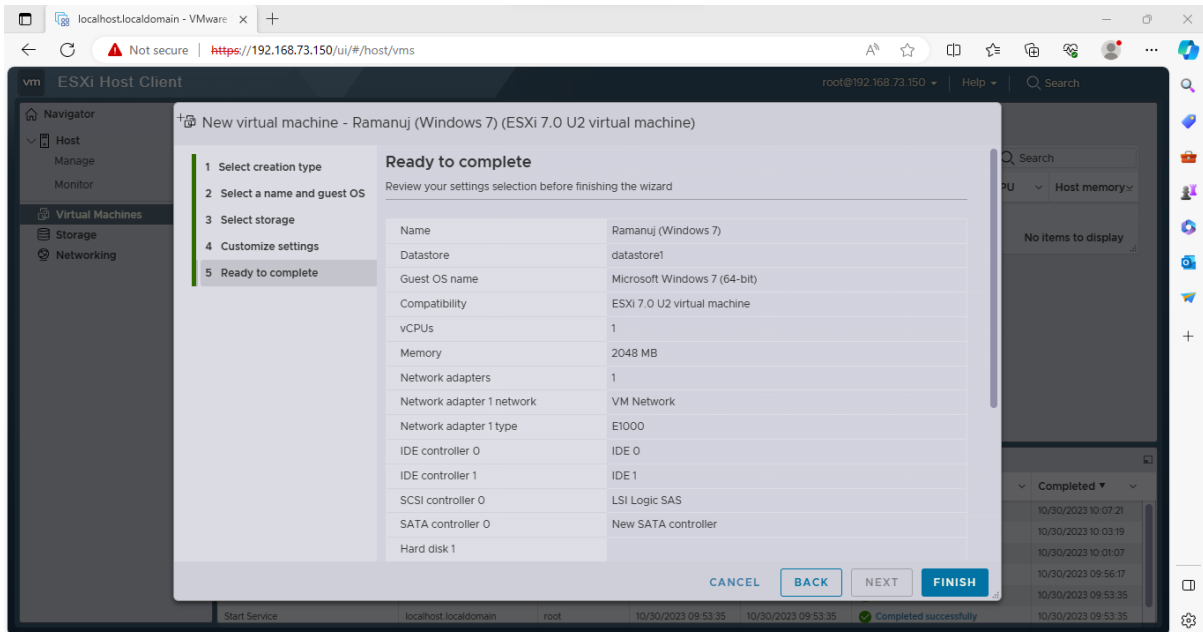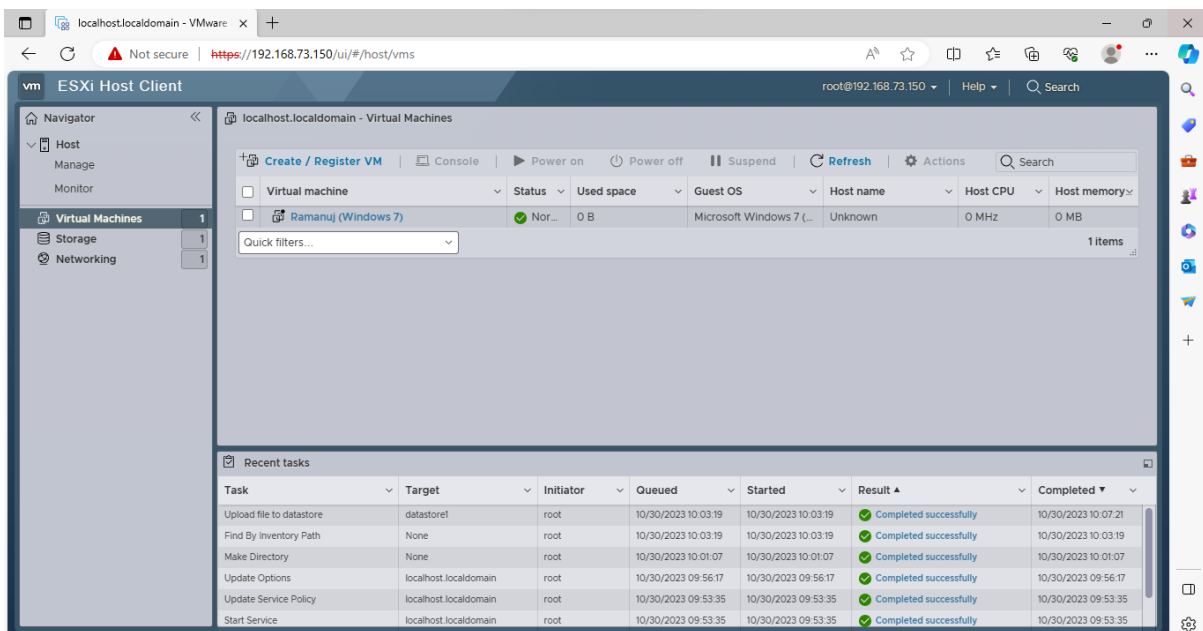
- Select the Standard datastore and Click **Next**

- Keep CPU at **1** core
- Memory at **2048 MB**
- Hard Disk at **8 GB**
- Disk Provisioning as **Thin provisioned**
- The remaining can have their default value, only exception being: **CD/DVD Drive 1** where you have to Select **Datastore iso file** and Select the **Windows 7 iso** file from the directory and ensure on Status the **Connect on Power on option** is selected and Click **Next**
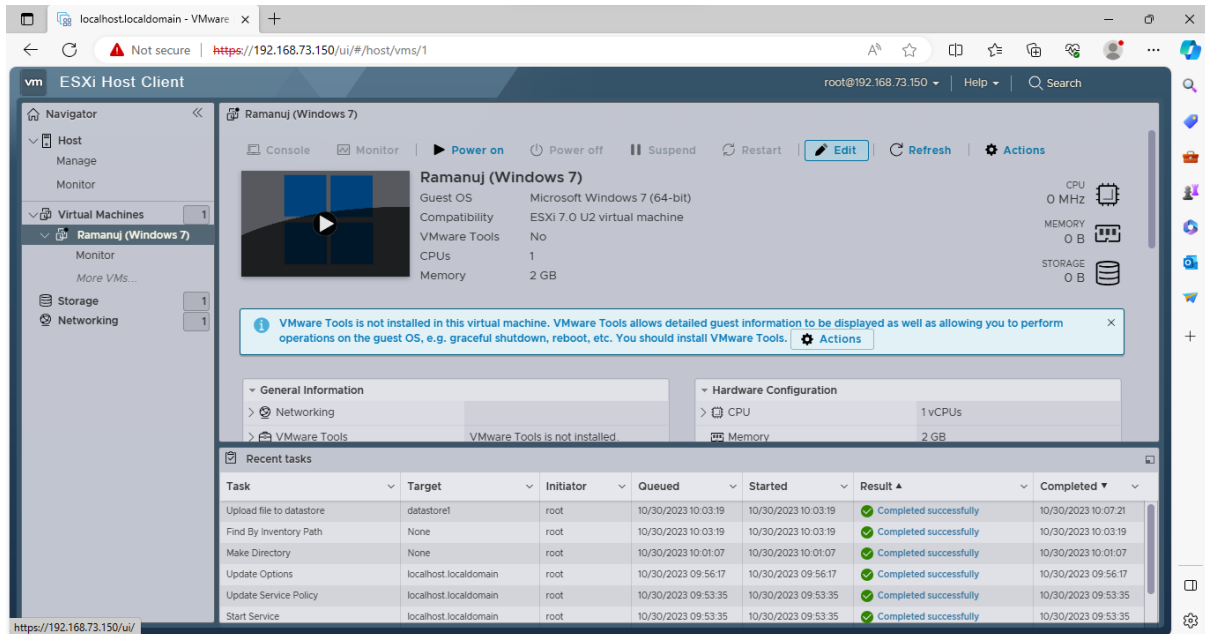
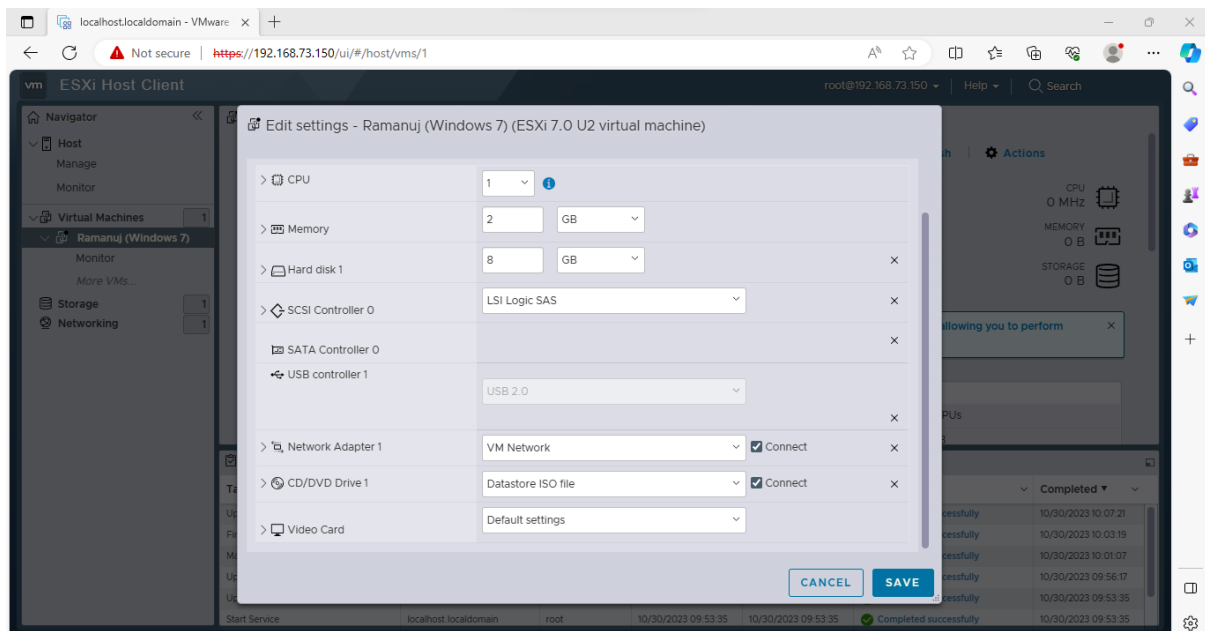- View the summary of your virtual machine and Click on **Finish**

- Your Virtual Machine has now been created and will reflect on the ESXi Host Client
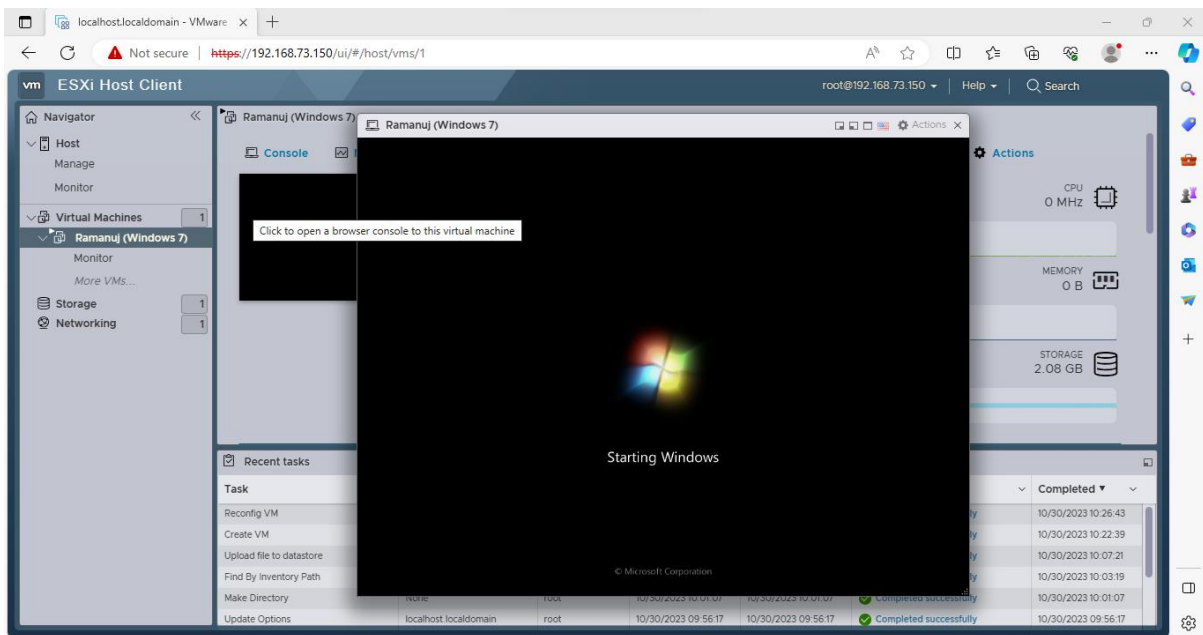
- Click on your virtual machine and before powering on Click on **Edit**

- Within Edit find the **CD/DVD Drive 1** option and Select **Connect** and Click **Save**
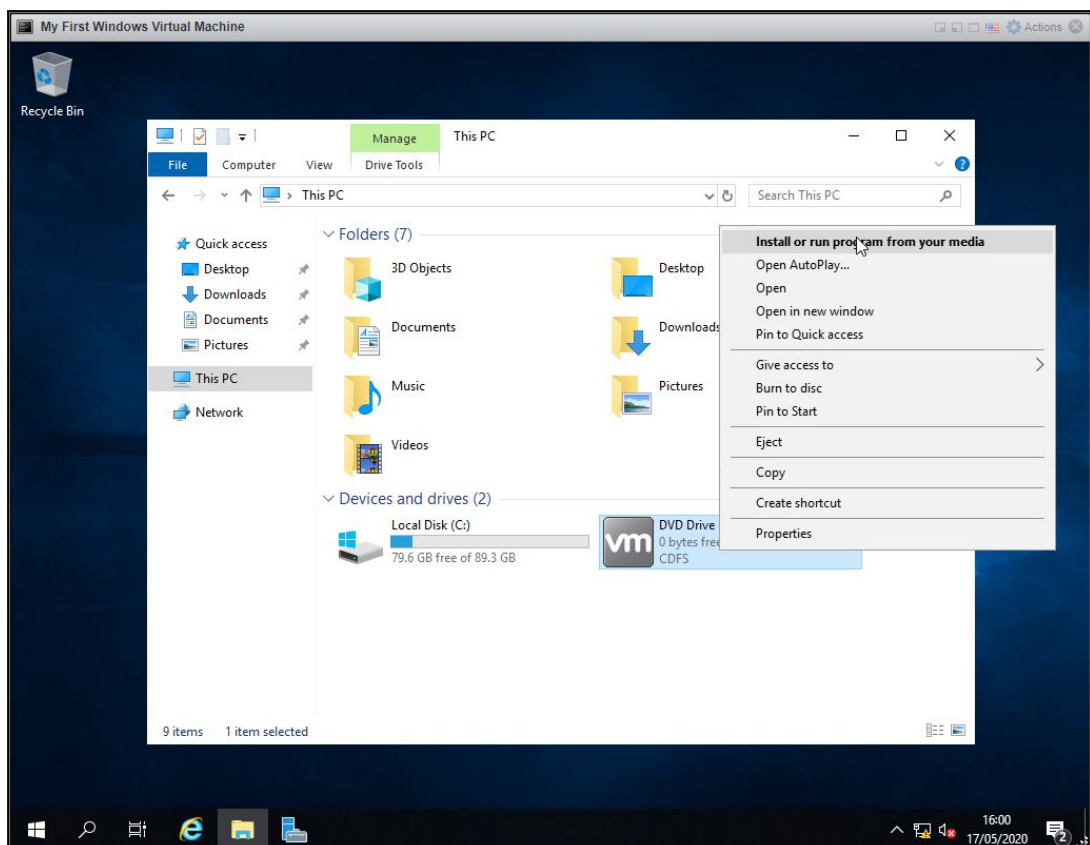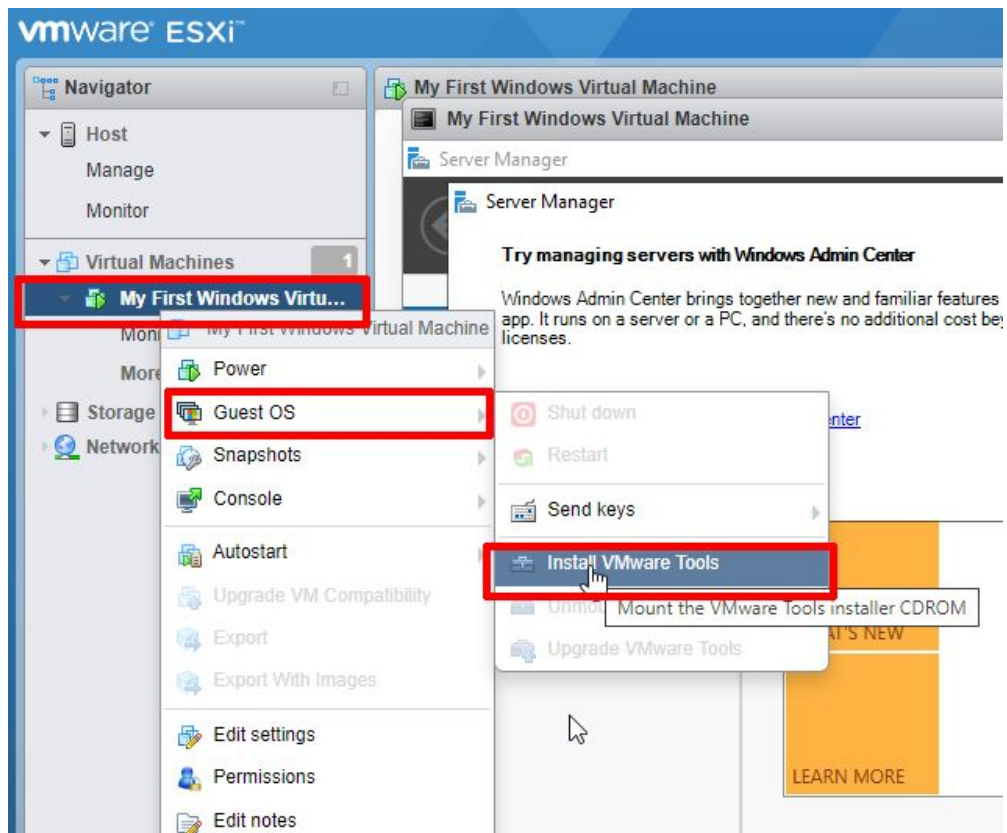
- Now Power On your Virtual Machine, it has been successfully configured and deployed on an ESXi server using ESXi Host Client

Install VMware Tools

Select Actions > Guest OS > Install VMware Tools

Copy Files to Desktop

Drag drop a desired file to the VM's Desktop after installing VMWare Tools