Big Data Assignment I

This report outlines the setup of a Linux-based environment within a Windows system. The process included creating a virtual machine and configuring it to satisfy the specified requirements: at least 3 CPU cores, 4 GB of RAM, and 25 GB of storage.

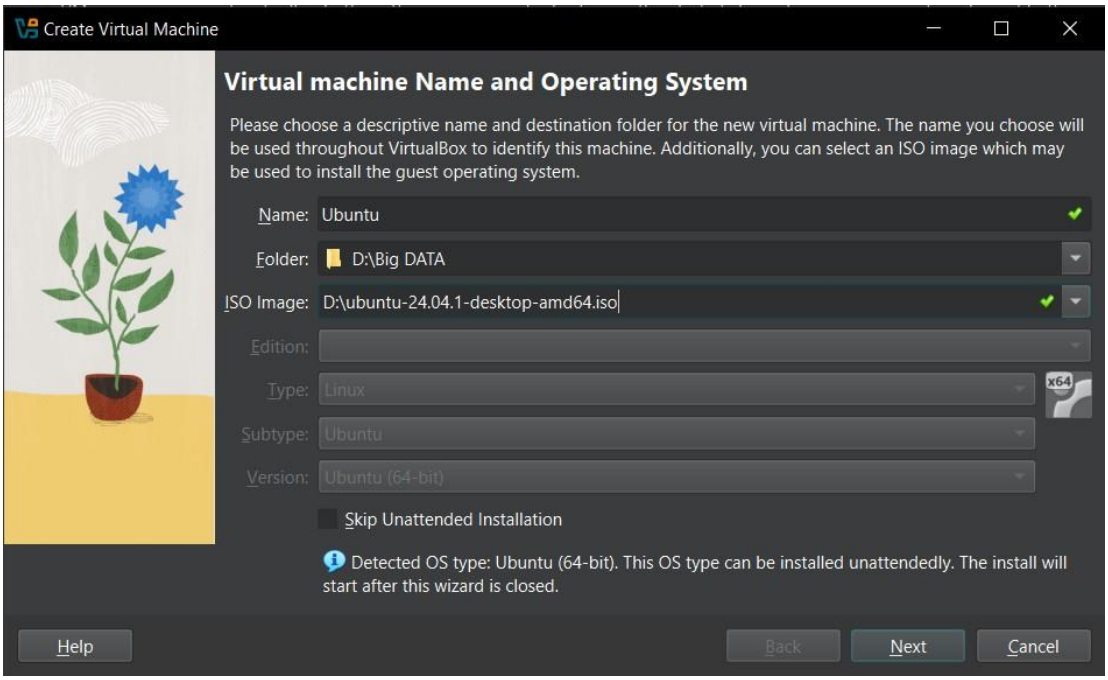
The process first started with the selection of VirtualBox as the virtualization software, chosen over alternatives like VMware Workstation. The required resources, including the VirtualBox application and the Ubuntu ISO file (64-bit), were downloaded next. A virtual machine was then created and configured to align with the specified requirements. Afterward, the Ubuntu operating system was installed, and the virtual environment was initialized.

To confirm the system configuration, Linux commands such as: '*lscpu'* was used to check the CPU details, '*free'* was used to check memory and '*df'* was used to check storage.

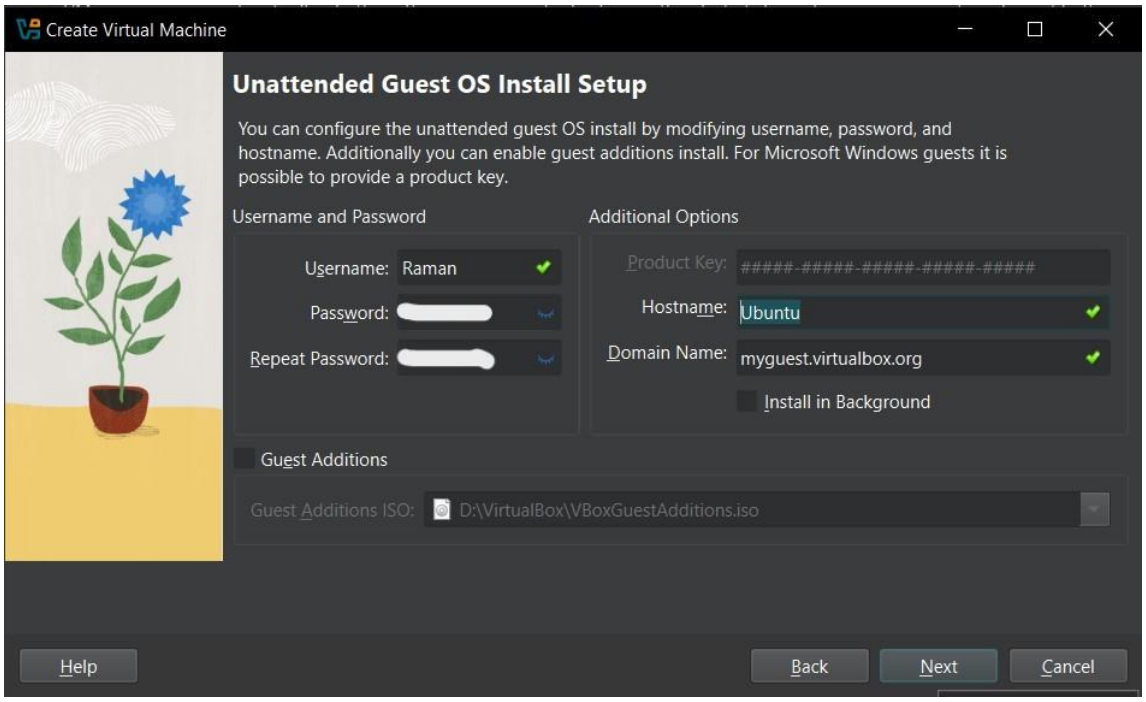
Steps to create Virtual Machine in VirtualBox

The steps taken are as follows:

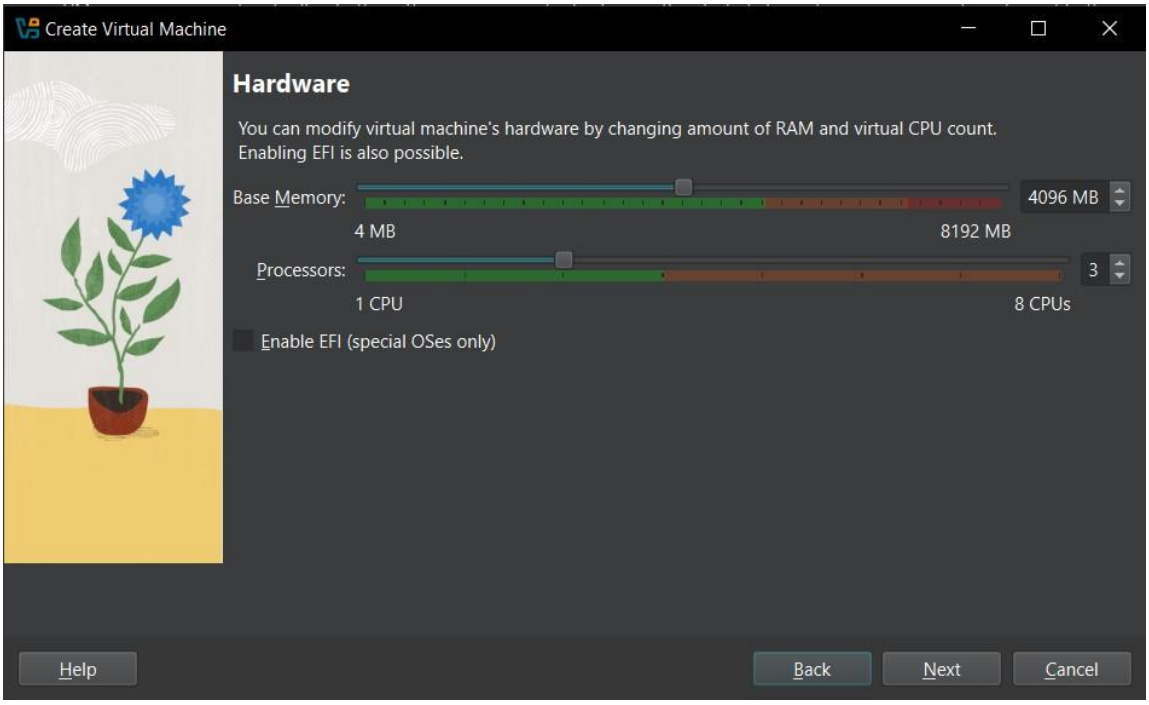
1. Download softwares:
    a. Oracle VM VirtualBox to create a virtual machine
    b. Ubuntu ISO file
2. Install VirtualBox
3. Open VirtualBox and click 'New' to install Ubuntu.
    a. Choose name, folder to install and ISO image file.



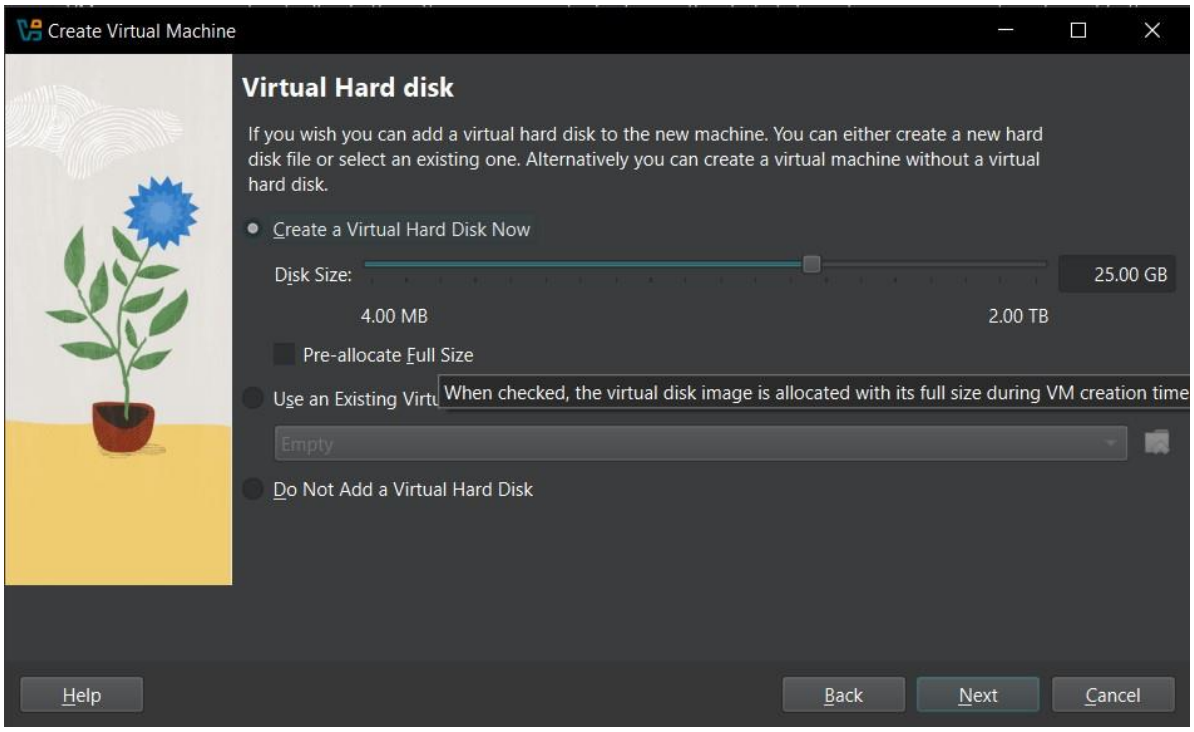
b. Add Username and Password.



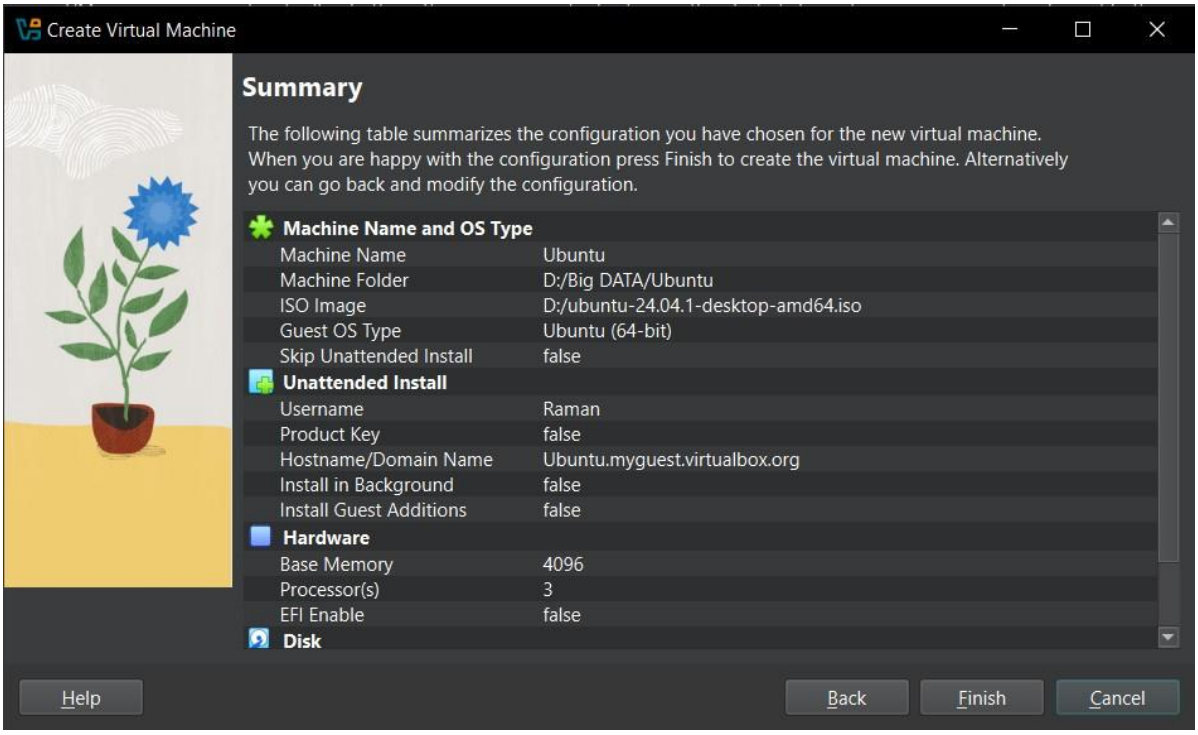
c. Configure Virtual Machine hardware.

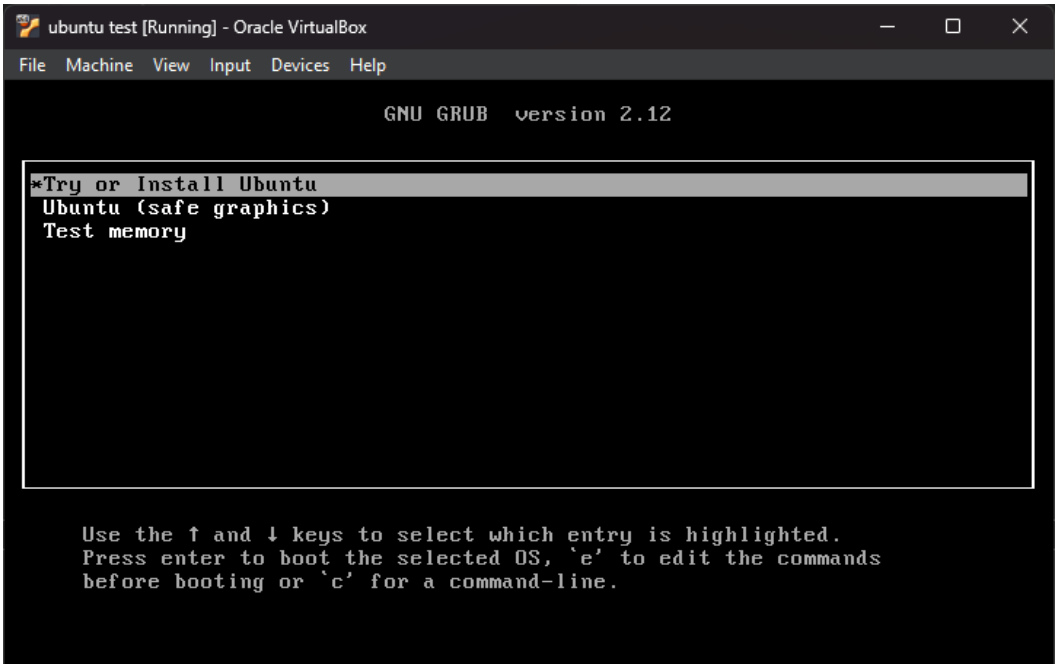


d. Create a virtual hard disk.

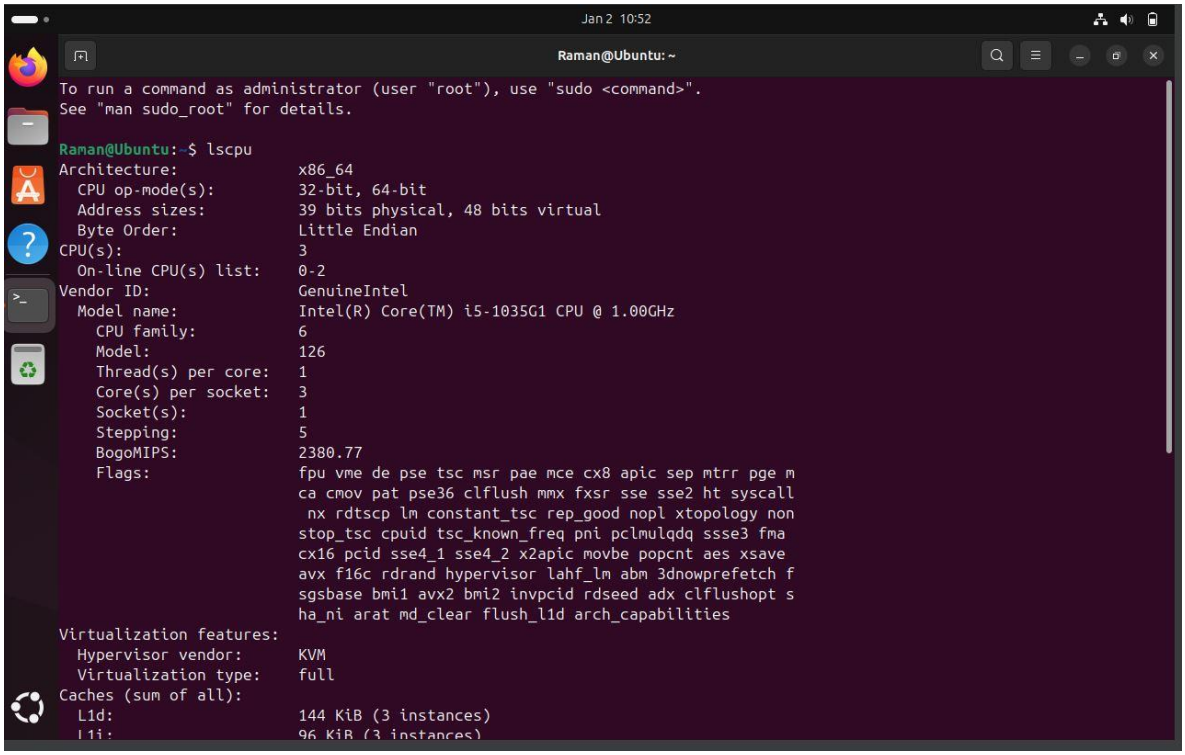


e. Finalize the configuration and install Ubuntu.

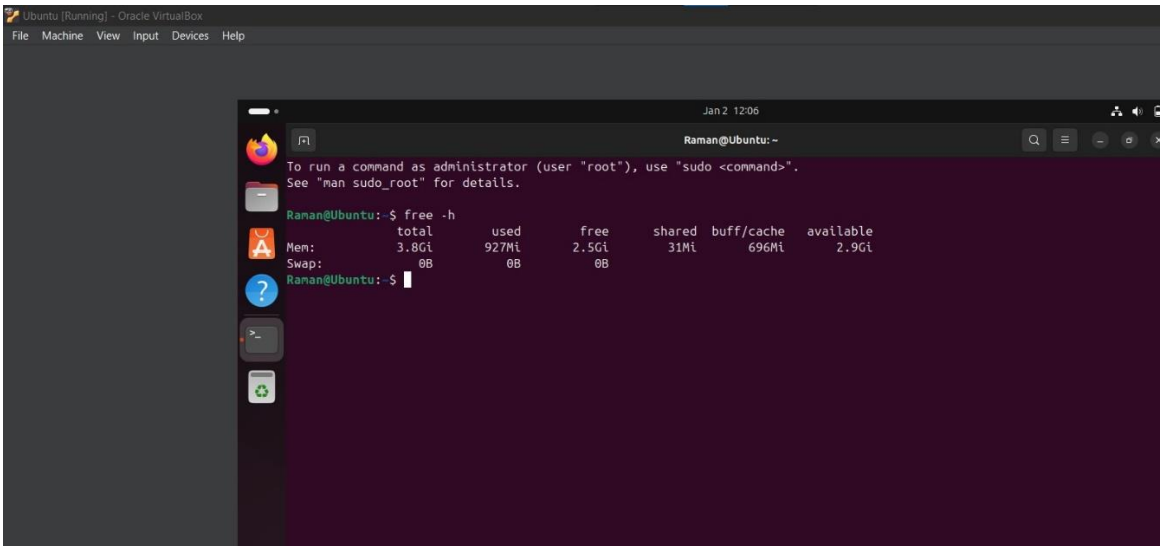




4. After installation is complete verify system specifications using commands like:
    a. '*lscpu'* to check the CPU.



b. ‘free’ to check memory (RAM).



c. ‘df’ to check storage.