QUESTION 1

ITLXA0-44

VIRTUAL MACHINE AND OS CONFIGURATION

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# Table of Content

Introduction

This project involves creating and managing two Linux virtual machines using Oracle VirtualBox. We'll perform basic file and directory management tasks entirely through the terminal on the first virtual machine.
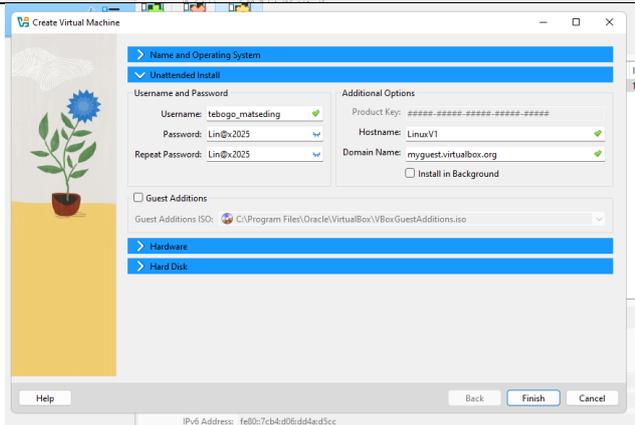
VM1 Name Config

Open Oracle VirtualBox and start creating a new virtual machine.
Enter LinuxV1 as the name. This helps identify it easily during setup and later tasks.
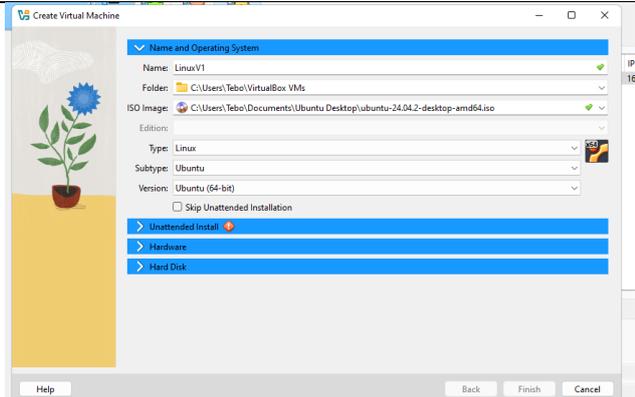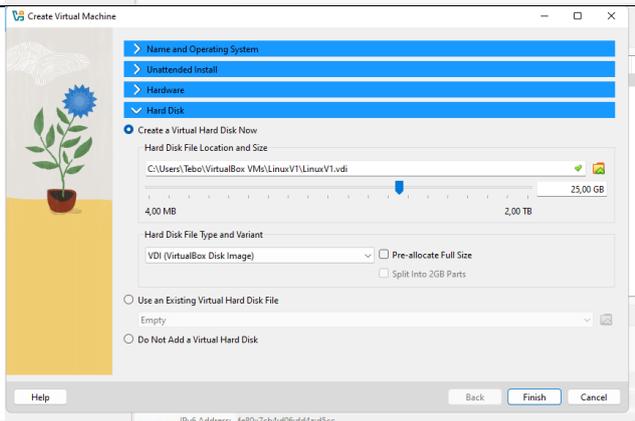

VM1 Username & Password

When setting up the virtual machine, create your admin account using your first name as the username.
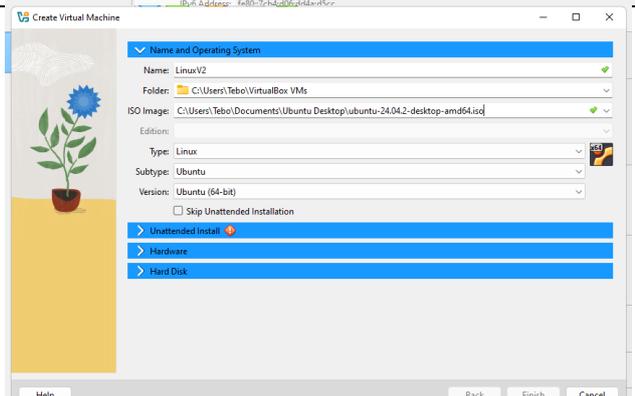Set the password to Lin@x2025 you'll use this password to log in whenever you start the machine.

VM1 Storage Config

Assign 25 GB of total storage to this virtual machine.
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VM2 Name Config

Create another virtual machine and name it LinuxV2.
This second machine will be used to perform similar tasks or comparisons later.
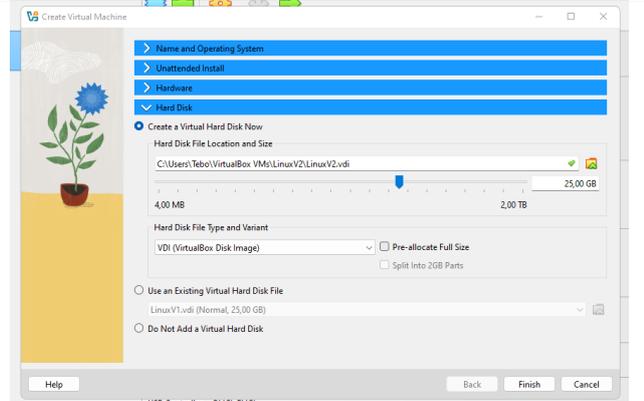
VM2 Username & Password

For this machine, set the username to Cristiano Ronaldo and the computer name to LinuxProject.
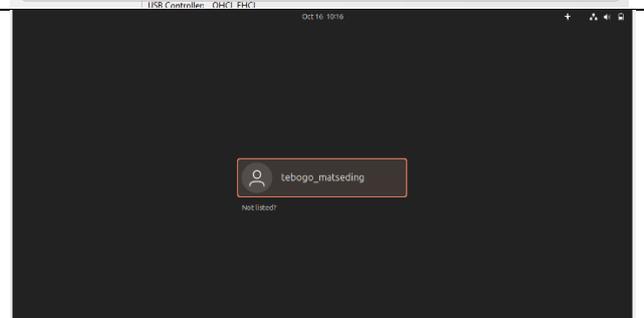Use the same password, Lin@x2025, to keep things simple and consistent between both virtual machines.
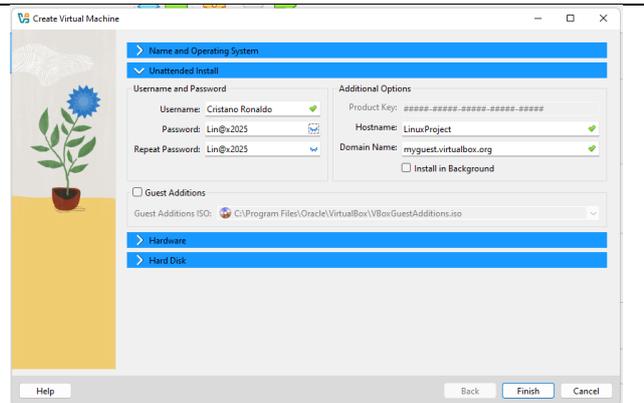
VM2 Storage Config

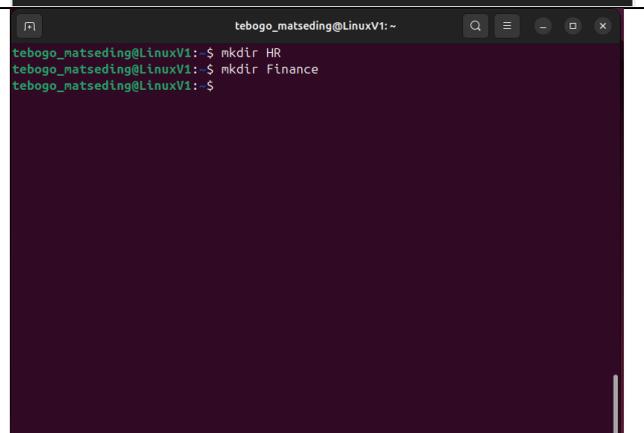Give this virtual machine 25 GB of storage as well.

Installation Complete

## Create Directories in Terminal

On VM1, open the terminal and navigate to your home directory.
Create two new directories in the home directory named Finance and HR using the mkdir command.

List New Directories

Use the ls command to list the contents of your home directory.
If you have successfully created the new folders you should see that both Finance and HR directories appear in the list.
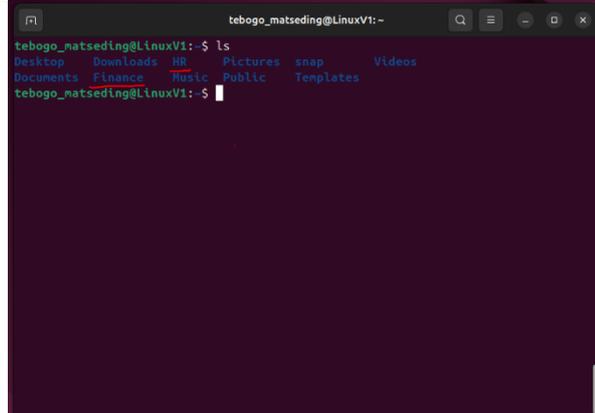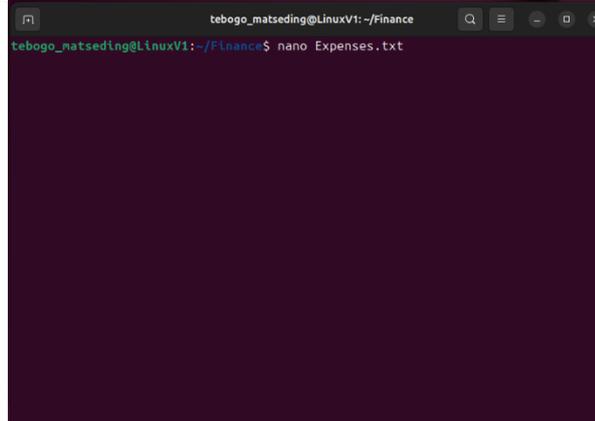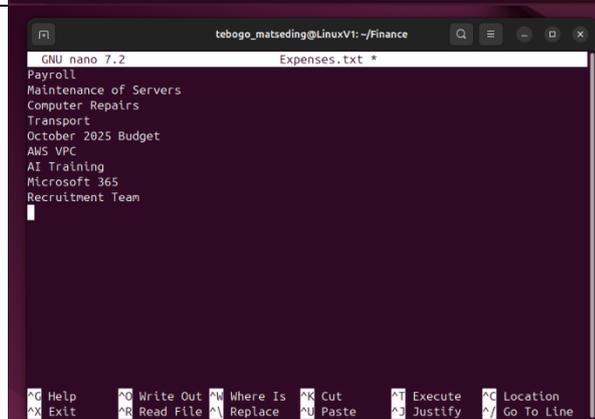

Create Document in Finance Directory

Navigate to the Finance directory using the command cd.
Create a new text file named Expenses.txt with the nano command this will store your list of expenses of your choosing.

Add List of Expenses Using Nano

Sort Expenses and Send Output to HR Directory

While still inside the Finance directory, sort the contents of Expenses.txt alphabetically using the sort command.
Use output redirection ">" to save the sorted list as a new file named Budget inside the HR directory.
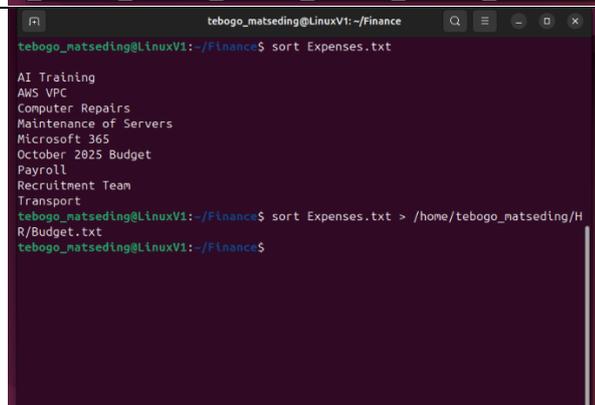
## Verify Document Creation 	
 	
Navigate to the HR directory and use the ls command to confirm that the Budget file exists.
Open it to ensure the items are alphabetically sorted using the cat command.
	`tebogo_matseding@LinuxV1: ~/Finance`
	
	`tebogo_matseding@LinuxV1:~/Finance$ ls /home/tebogo_matseding/HR`
	`Budget.txt`
	`tebogo_matseding@LinuxV1:~/Finance$`

## Conduct a word count of Expenses.txt 	
 	
Still in the Finance directory.
Use the wc command to display the number of lines, words, and characters in Expenses.txt.
	`tebogo_matseding@LinuxV1: ~/Finance`
	
	`tebogo_matseding@LinuxV1:~/Finance$ wc Expenses.txt`
	`  10  18 133 Expenses.txt`
	`tebogo_matseding@LinuxV1:~/Finance$`