

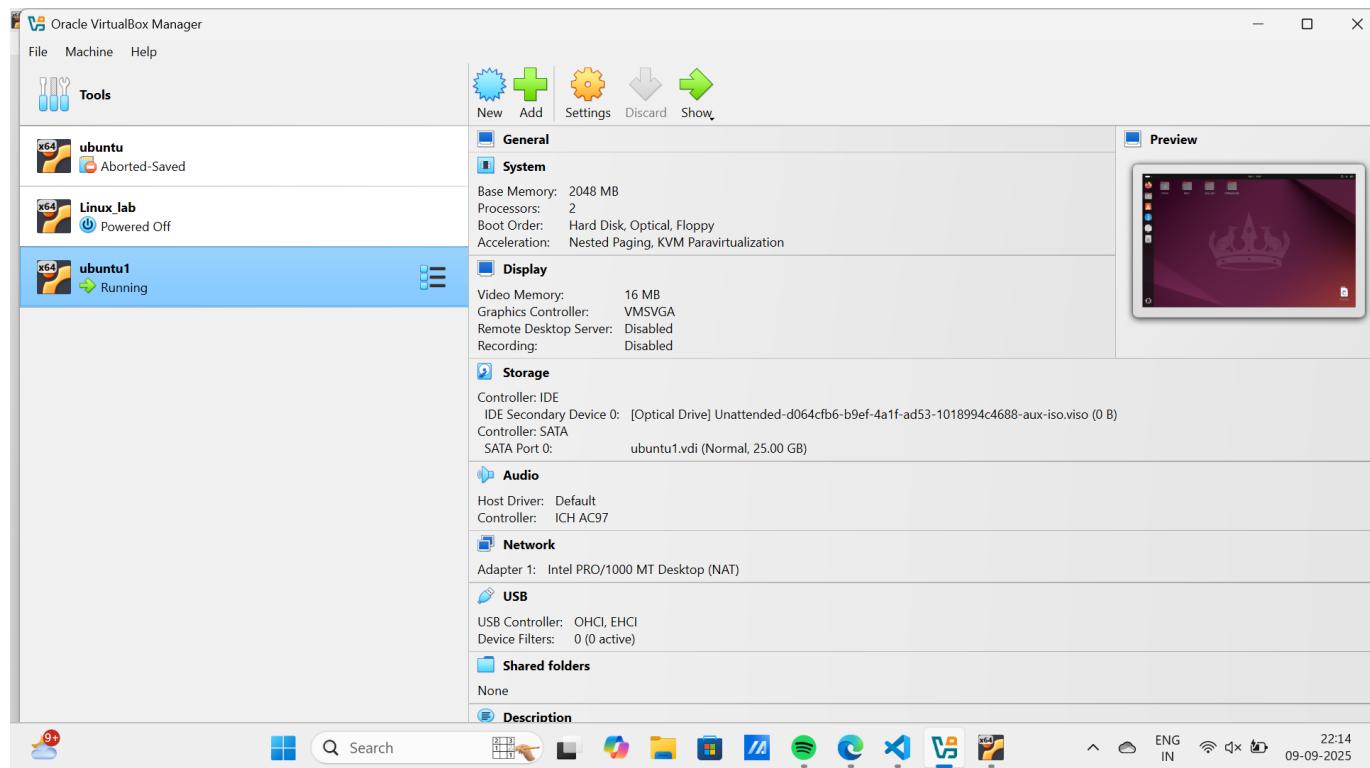
LAB0 – Ubuntu Installation Report

💻 Installation Method Chosen: Virtual Machine (VM)

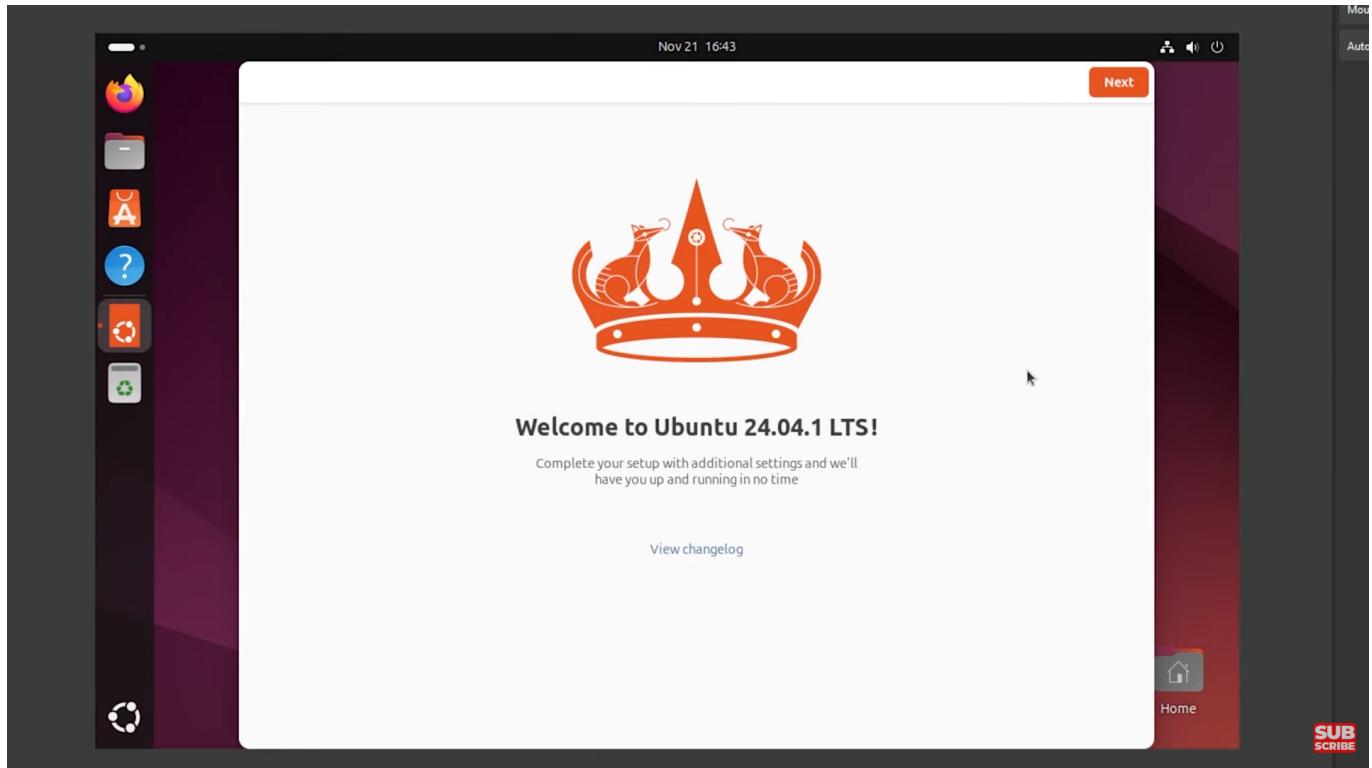
I chose to install Ubuntu using **VirtualBox** on my existing system. Below are the steps I followed.

🔧 Step-by-Step Installation Process

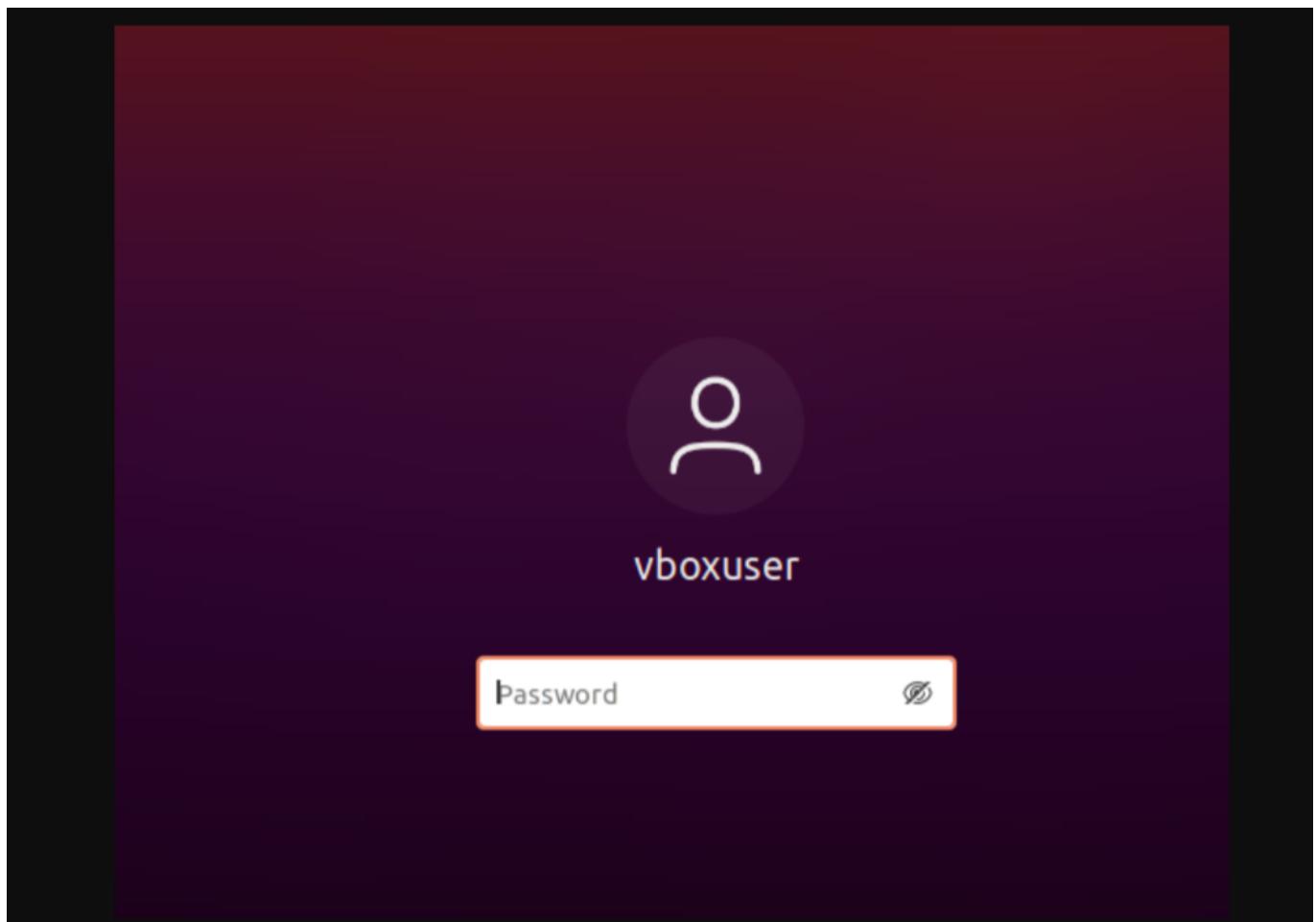
1. Install VirtualBox
2. Download Ubuntu ISO (LTS version)
3. Create New VM (2 GB RAM, 20 GB disk)



4. Install Ubuntu in the VM

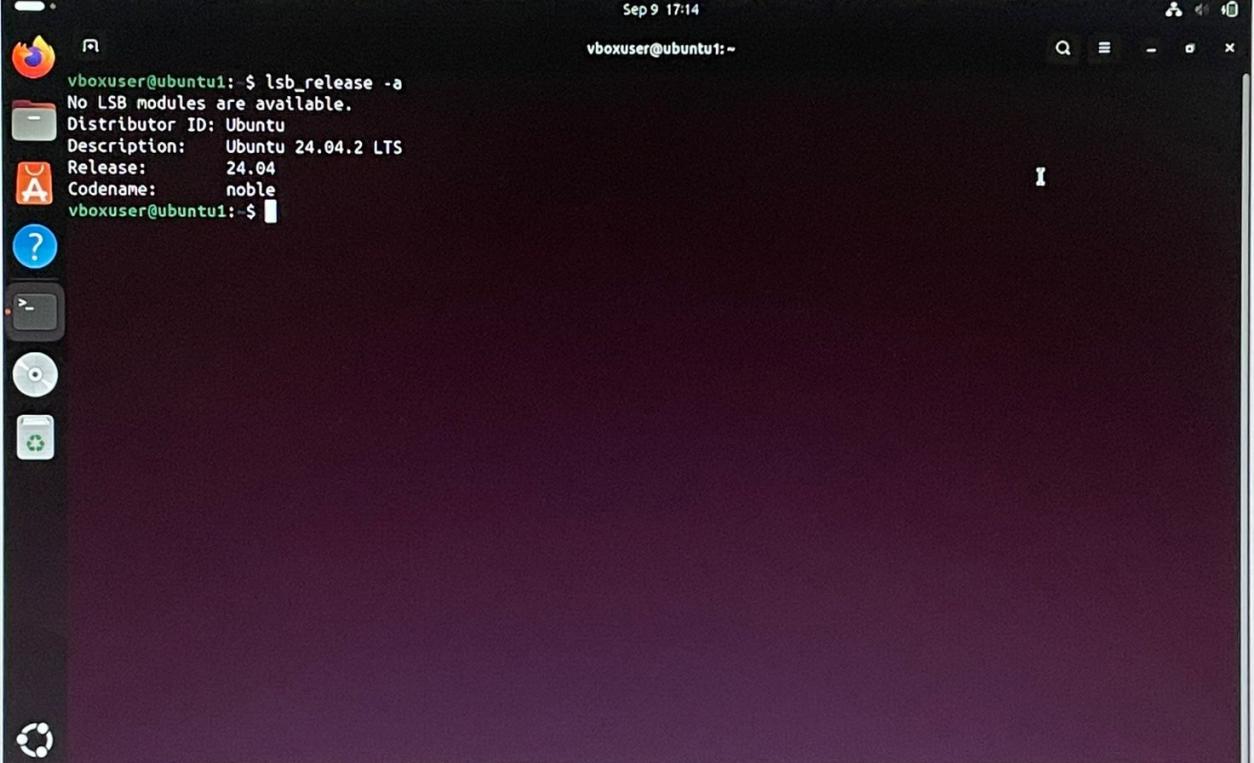


5. First Boot and Login



💻 Terminal Commands & Outputs (Screenshots)

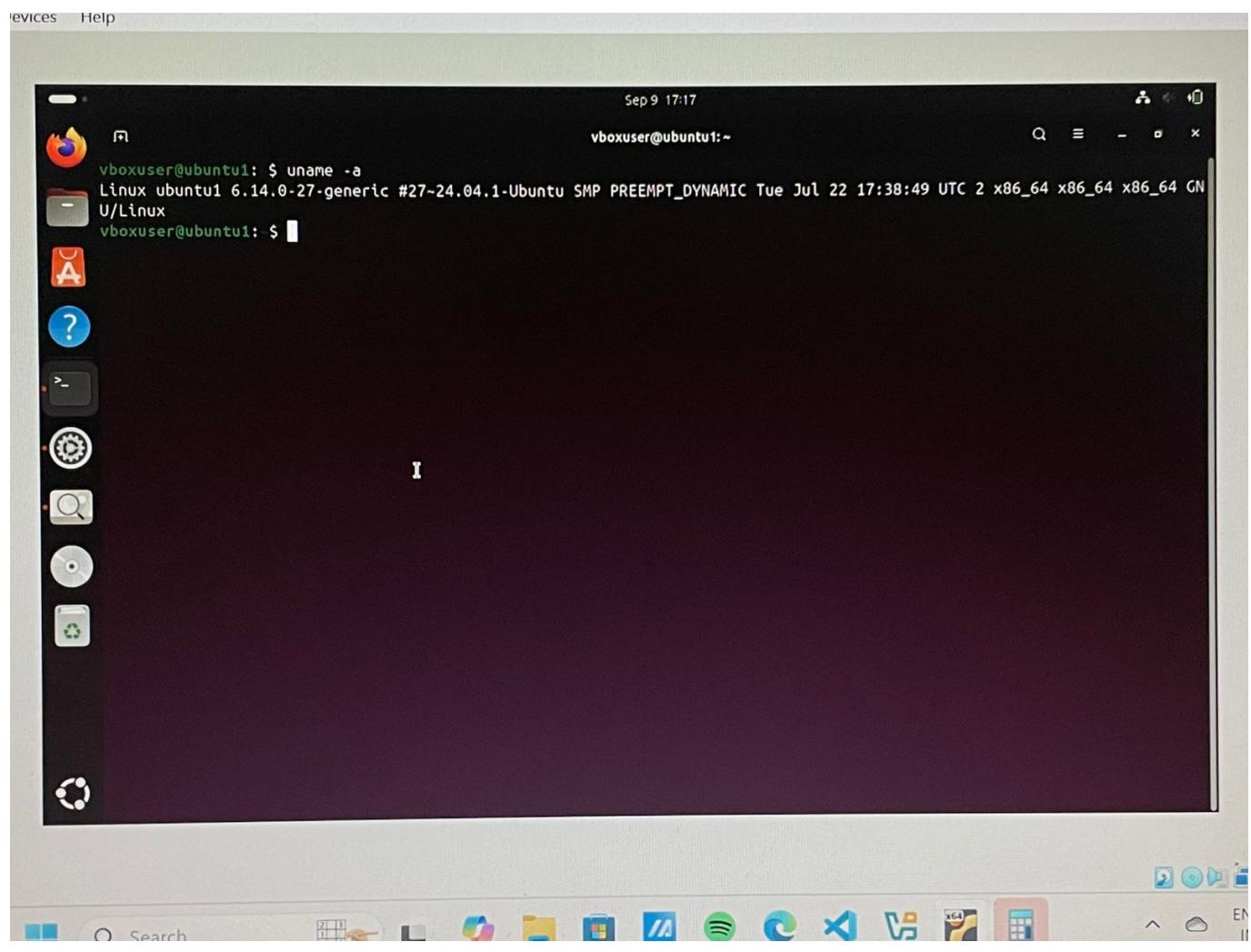
◊ lsb_release -a



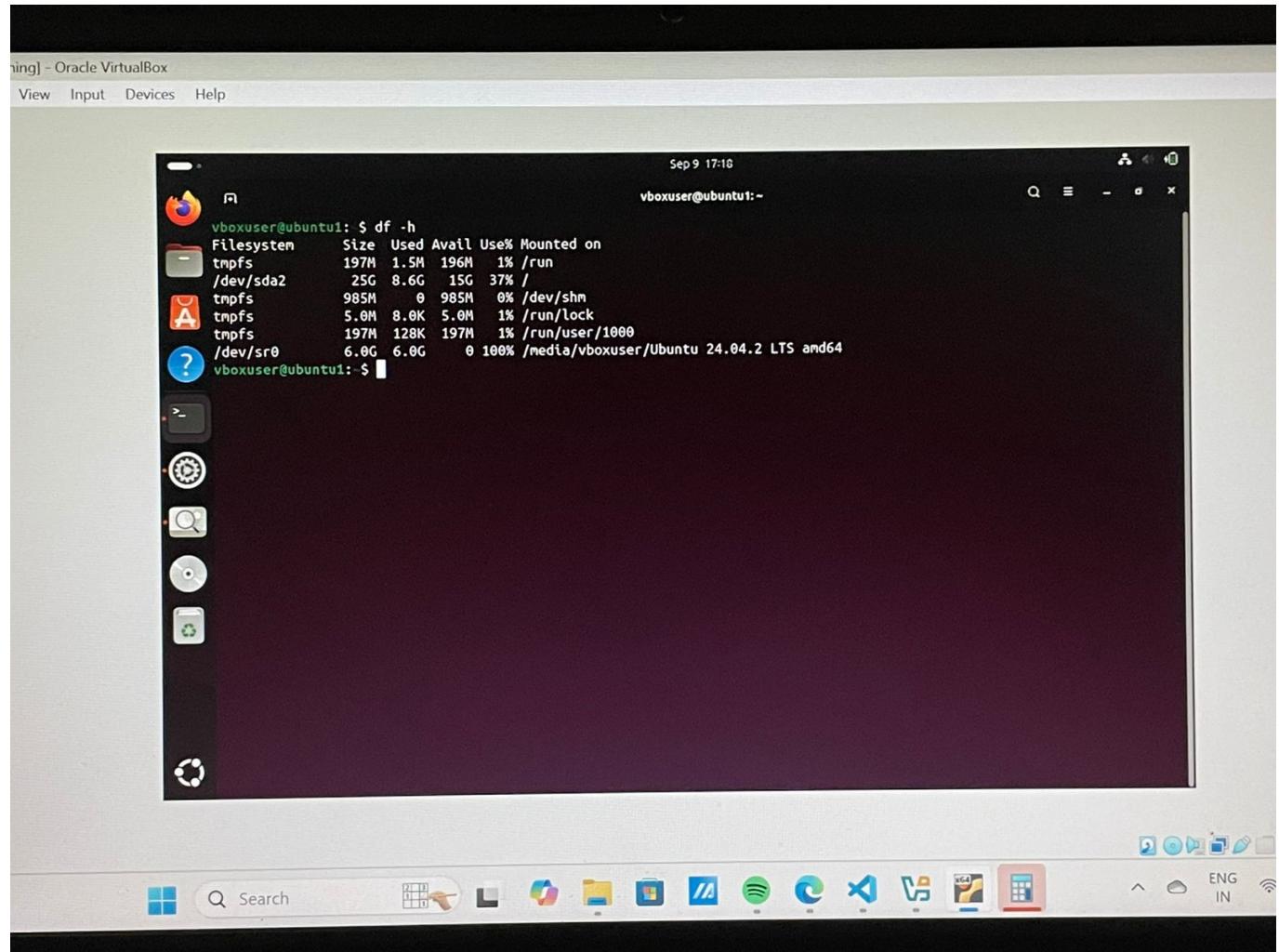
The screenshot shows a terminal window titled "VIRTUAUDIOX" with the command "lsb_release -a" run. The output indicates that there are no LSB modules available, and the system is Ubuntu 24.04.2 LTS, Release 24.04, Codename noble. The terminal window has a dark background with icons on the left and standard window controls on the right. The date and time "Sep 9 17:14" and the user "vboxuser@ubuntu1:~" are visible at the top.

```
vboxuser@ubuntu1:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:    Ubuntu 24.04.2 LTS
Release:        24.04
Codename:       noble
vboxuser@ubuntu1:~$
```

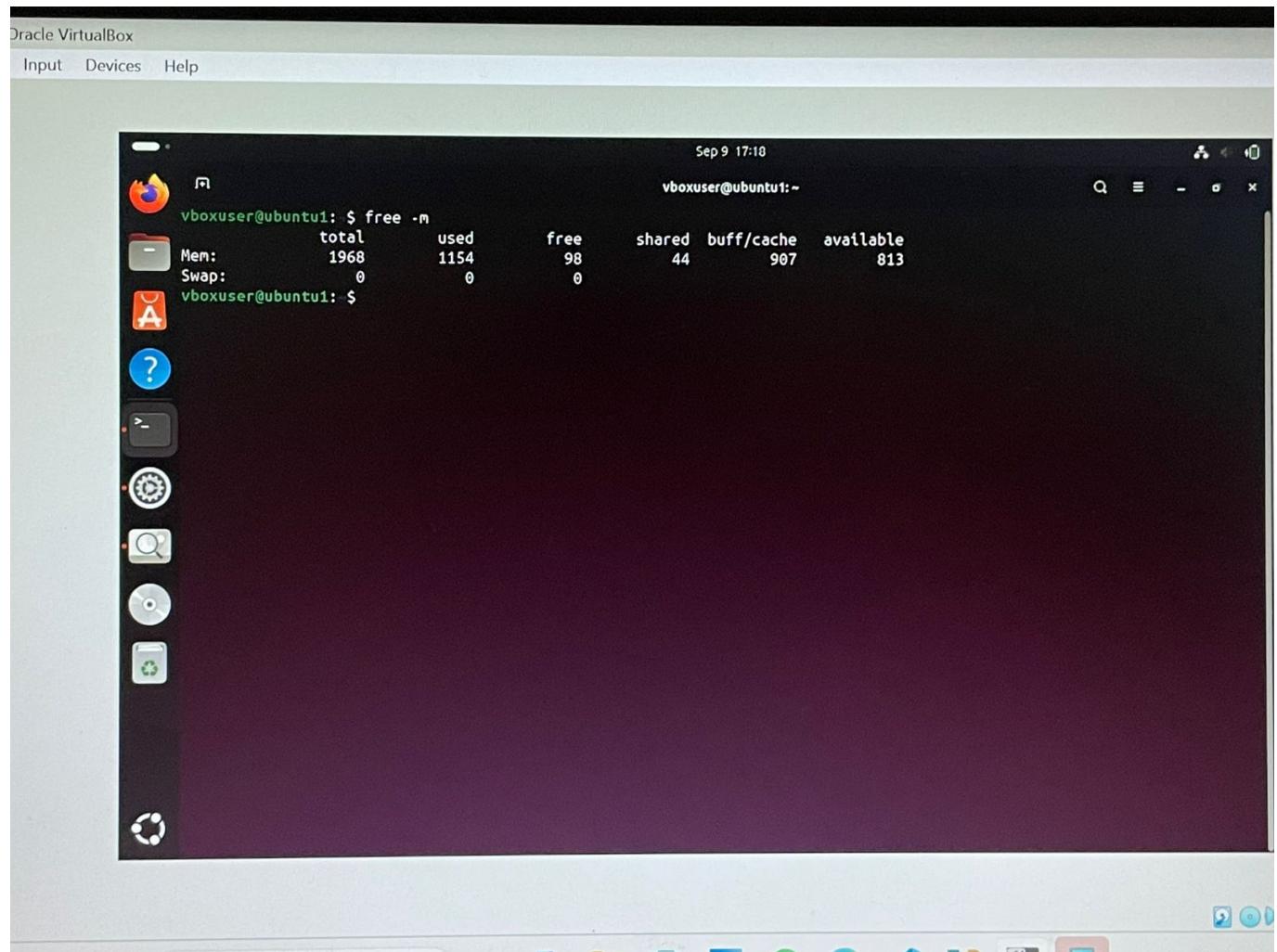
◊ uname -a



◊ df -h



◊ free -m



Reflection: Challenges Faced

Installing Ubuntu in VirtualBox was mostly straightforward, but a few challenges came up:

- **ISO Boot Issues:** Initially, the VM didn't detect the ISO file. I had to manually configure the optical drive in the VM settings.
- **Slow Performance:** With limited RAM (2 GB), the system was a bit sluggish. Increasing system RAM helped slightly.
- **Guest Additions:** Installing VirtualBox Guest Additions for better screen resolution required some terminal work and wasn't automatic.

Despite these, the process gave me a good introduction to virtualization and Linux environments.

Extra Questions

What are two advantages of installing Ubuntu in VirtualBox?

1. **Safe Environment:** It allows running Ubuntu without affecting the host OS, making it ideal for beginners.
2. **Easy Reset & Snapshots:** You can take snapshots and roll back changes, which is helpful for experimenting or lab work.

What are two advantages of dual booting instead of using a VM?

1. **Better Performance:** Dual booting gives native performance with full system resources.
 2. **Real-world Experience:** It provides a more realistic Linux environment for development or system-level tasks.
-

Final Deliverables

- [LAB0.md](#) (This file with screenshots)
 - Convert to [LAB0.pdf](#)
 - Upload to LMS
-