

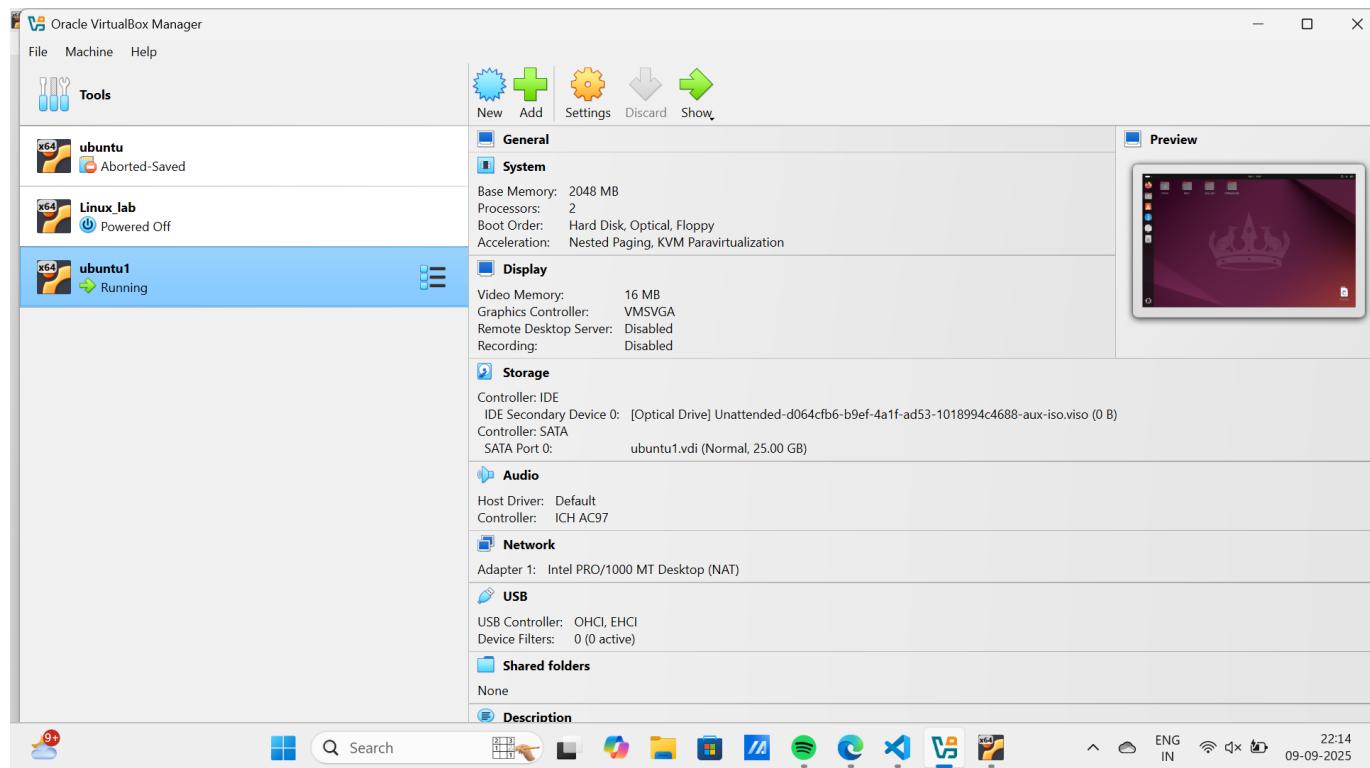
# LAB0 – Ubuntu Installation Report

## 💻 Installation Method Chosen: Virtual Machine (VM)

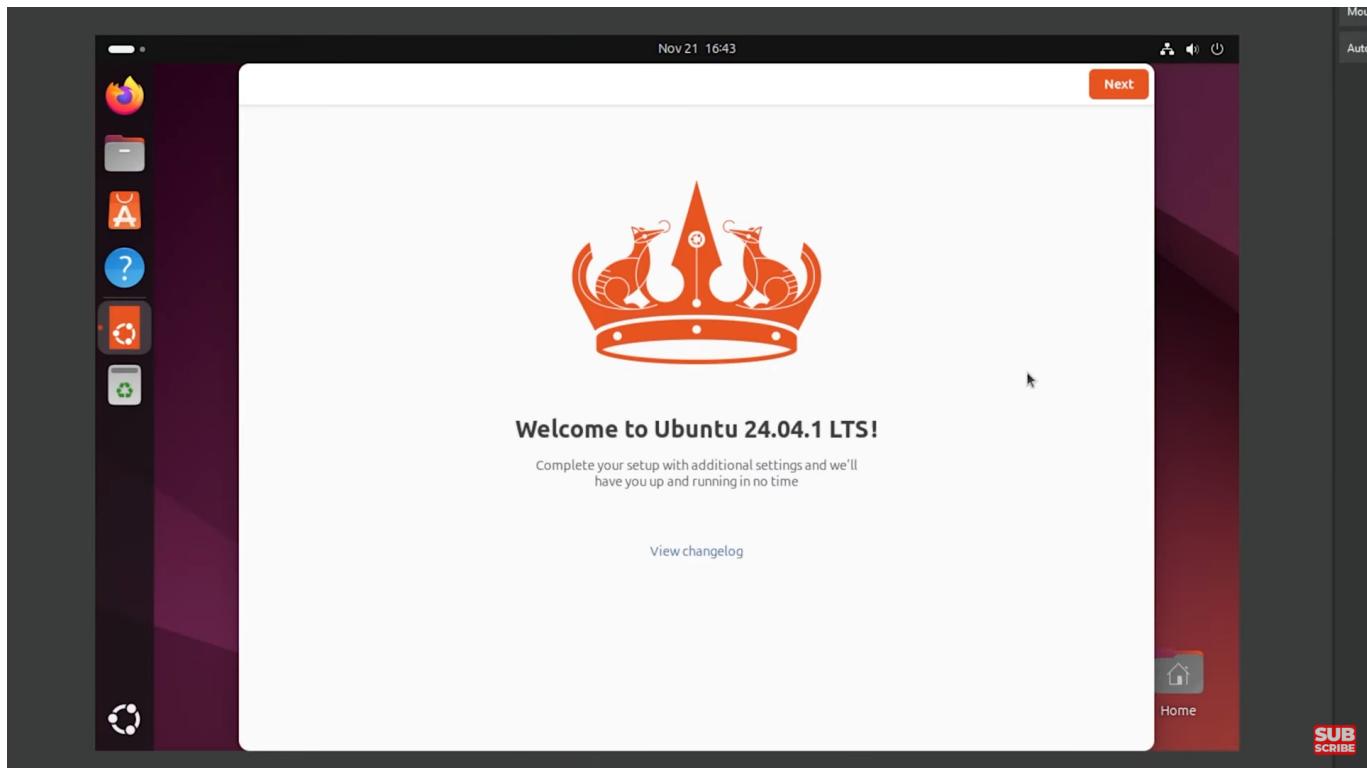
I chose to install Ubuntu using **VirtualBox** on my existing system. Below are the steps I followed.

## 🔧 Step-by-Step Installation Process

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

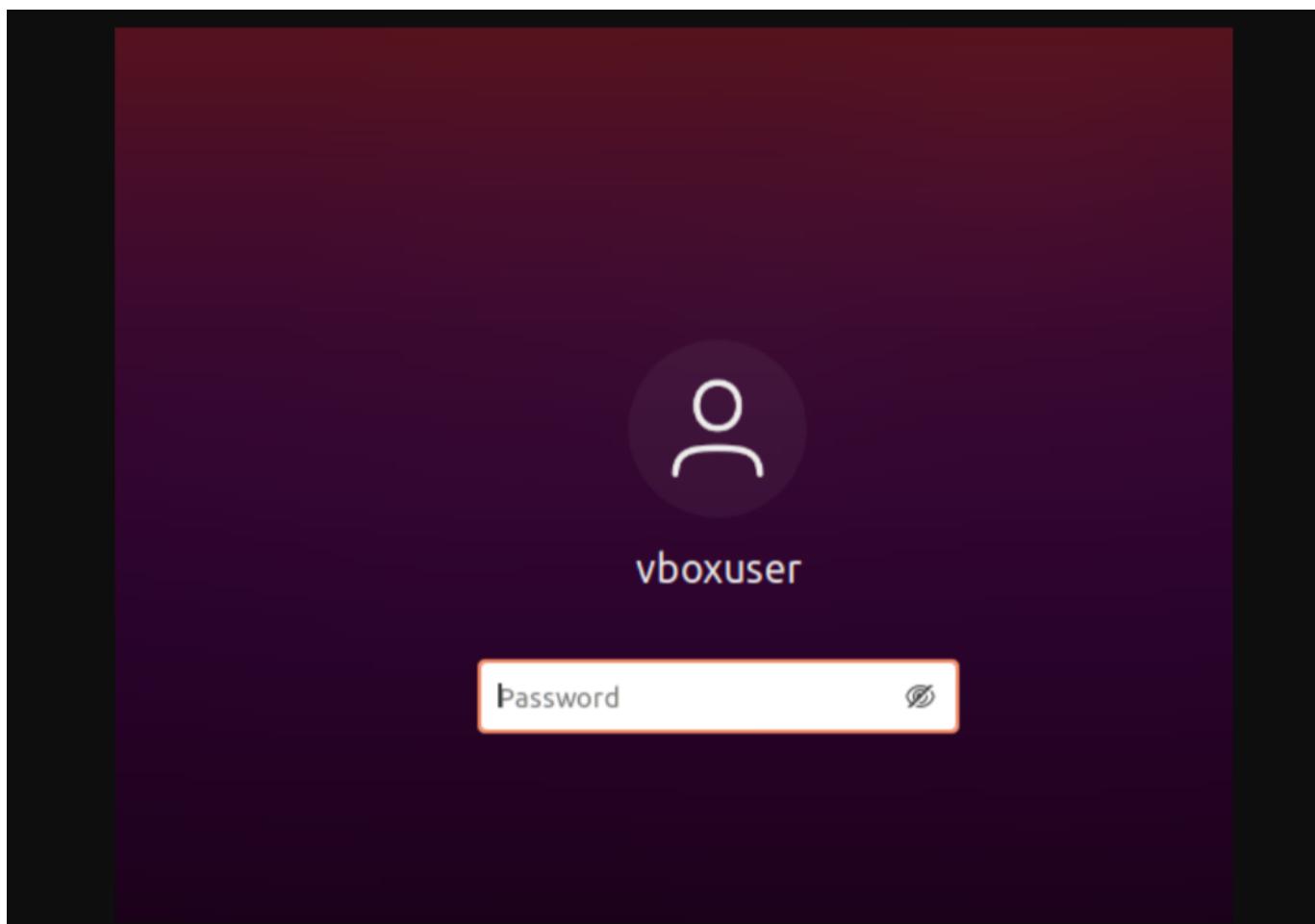


4. Install Ubuntu in the VM



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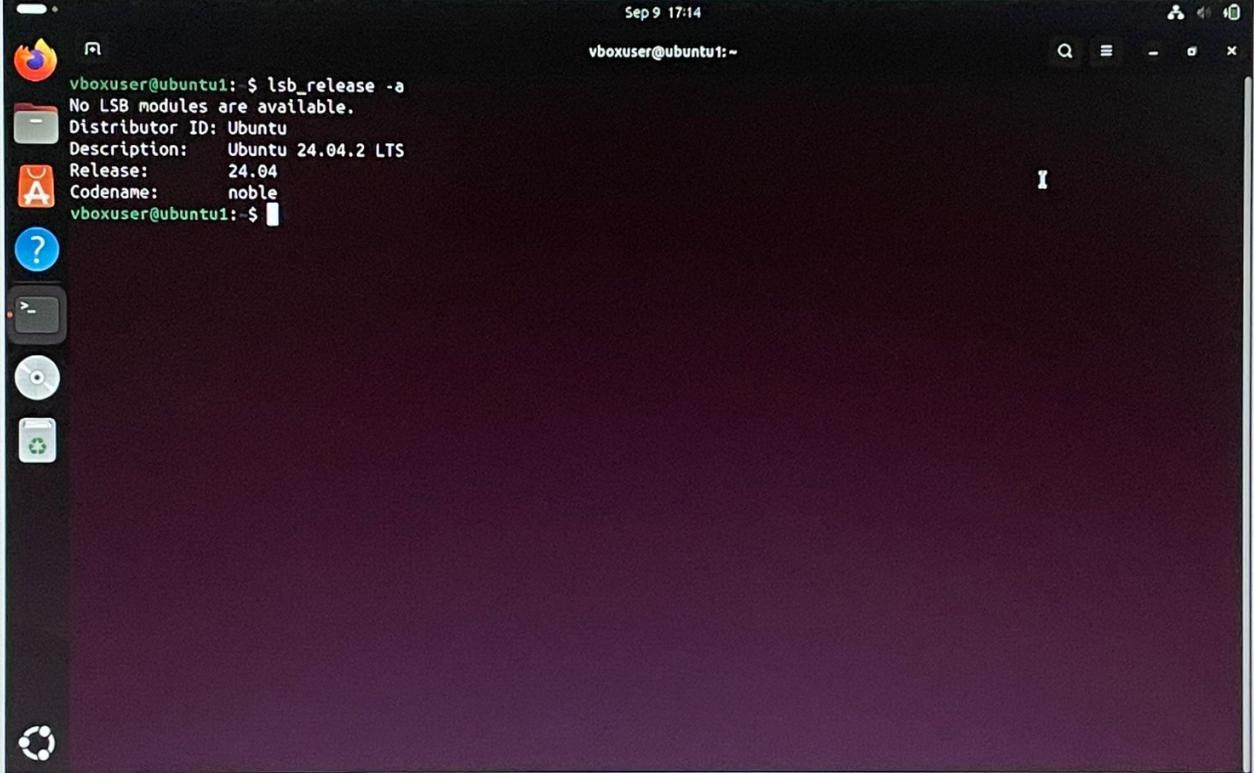
## 5. First Boot and Login



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## 💻 Terminal Commands & Outputs (Screenshots)

◊ lsb\_release -a



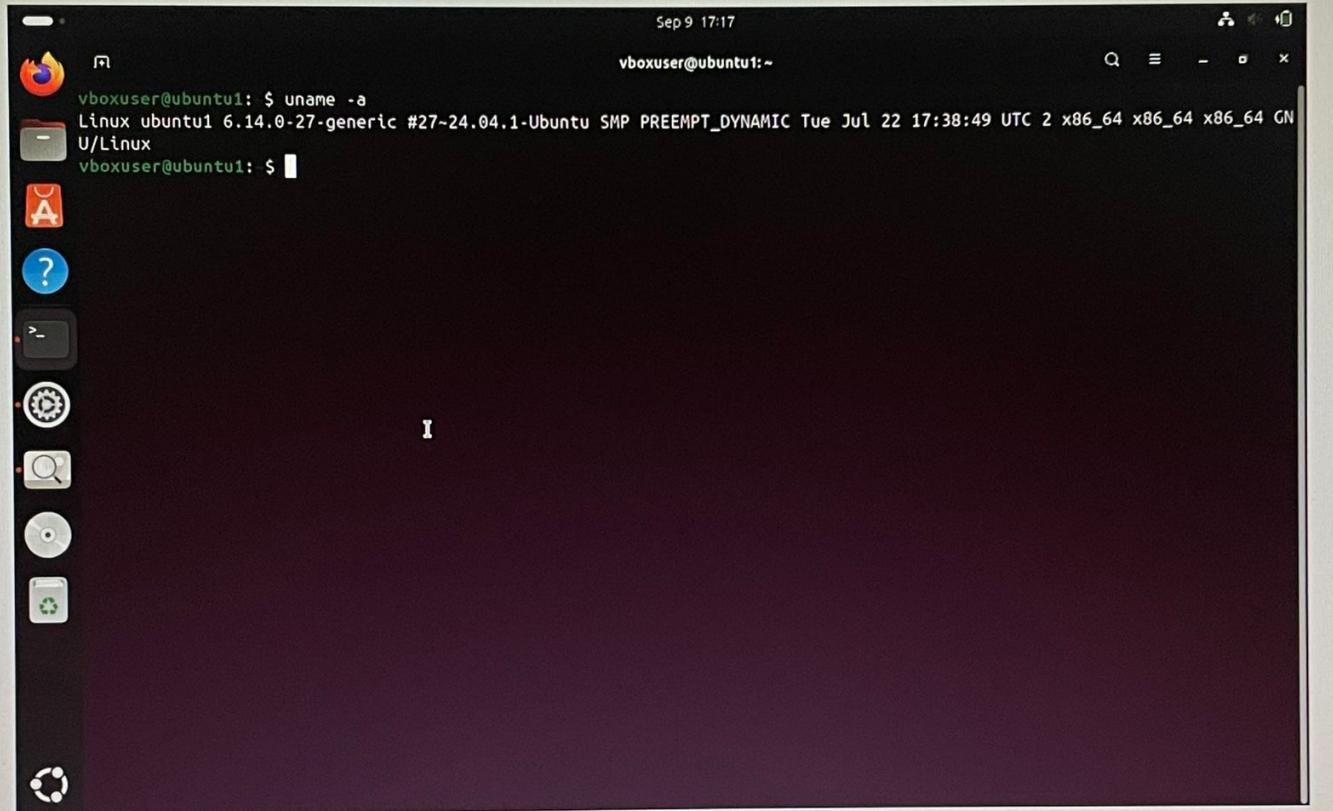
The screenshot shows a terminal window titled "VIRTUAUDIOX" with the command "lsb\_release -a" run. The output indicates that there are no LSB modules available, and the system is Ubuntu 24.04.2 LTS, Release 24.04, Codename noble. The terminal window has a dark background with icons on the left and standard 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:~$
```

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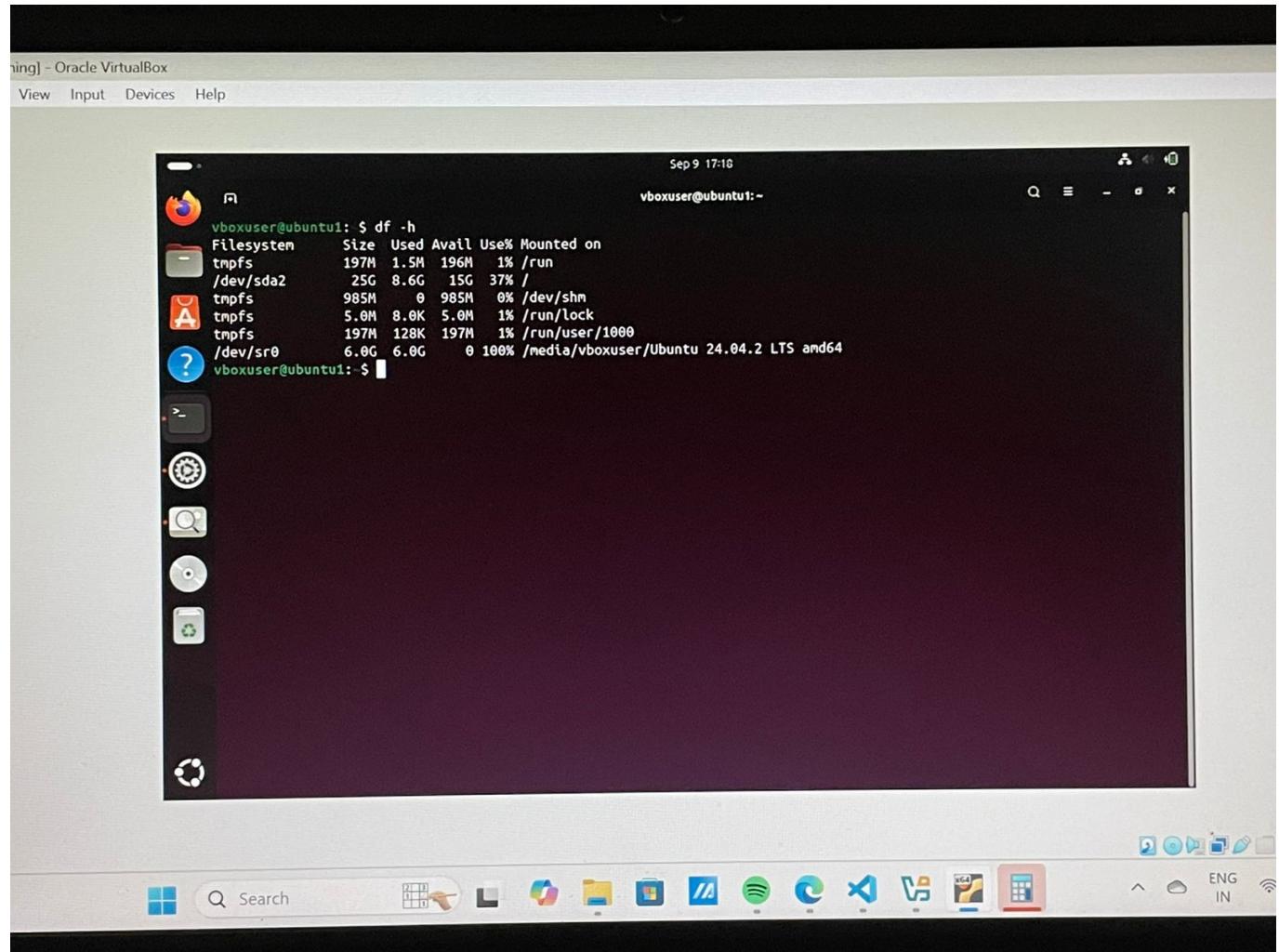
◊ uname -a

Devices Help

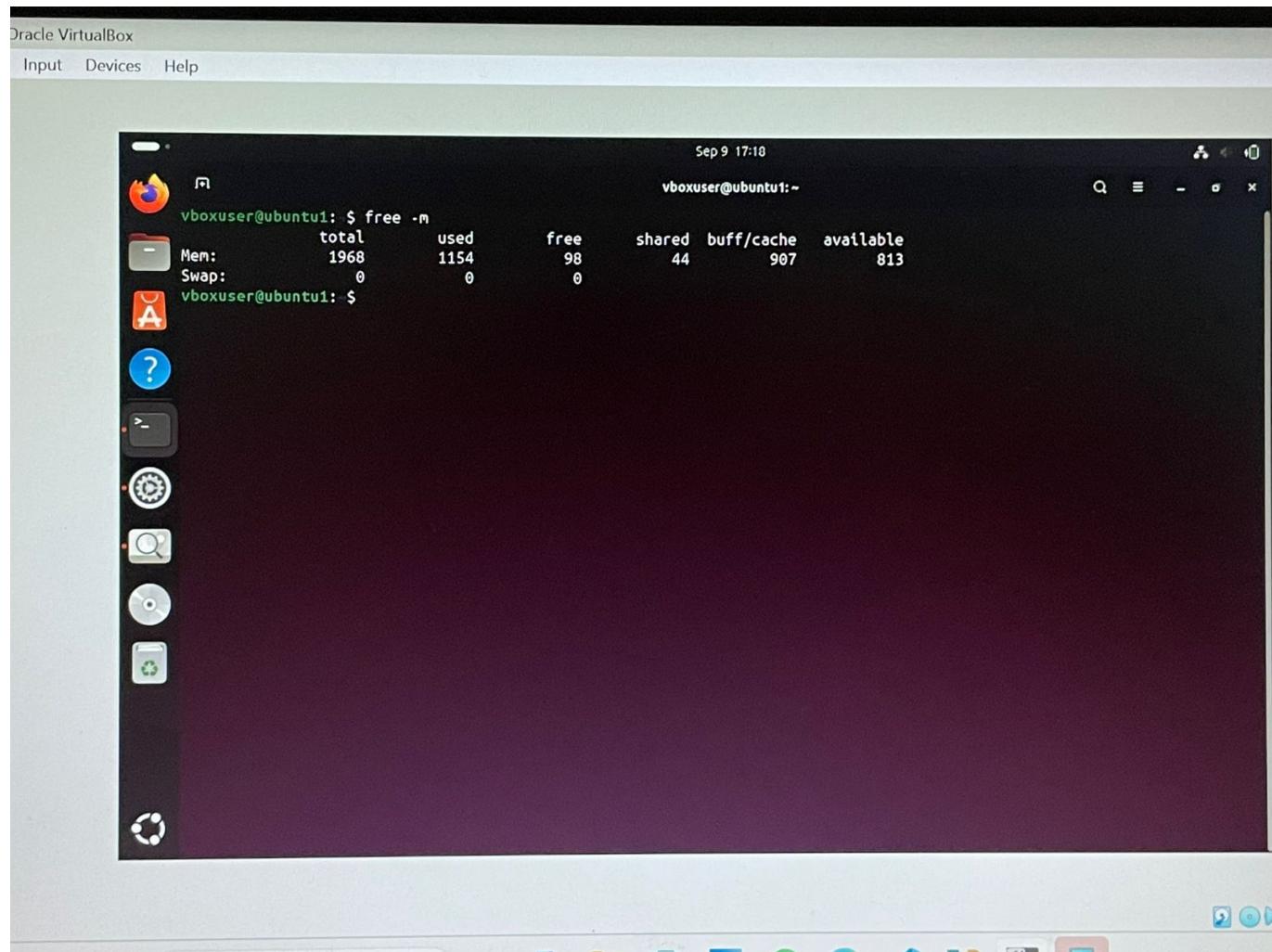


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◊ df -h



◊ 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.
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## Final Deliverables

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