

# IMPLEMENTATION OF VIRTUAL MACHINES

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## **Aim**

To create and configure a local virtual machine using VMware and deploy a cloud-based virtual machine using Microsoft Azure.

## **Tools Required**

- VMware Workstation
- Ubuntu ISO
- Microsoft Azure Portal
- Internet Connection
- SSH Client / Terminal

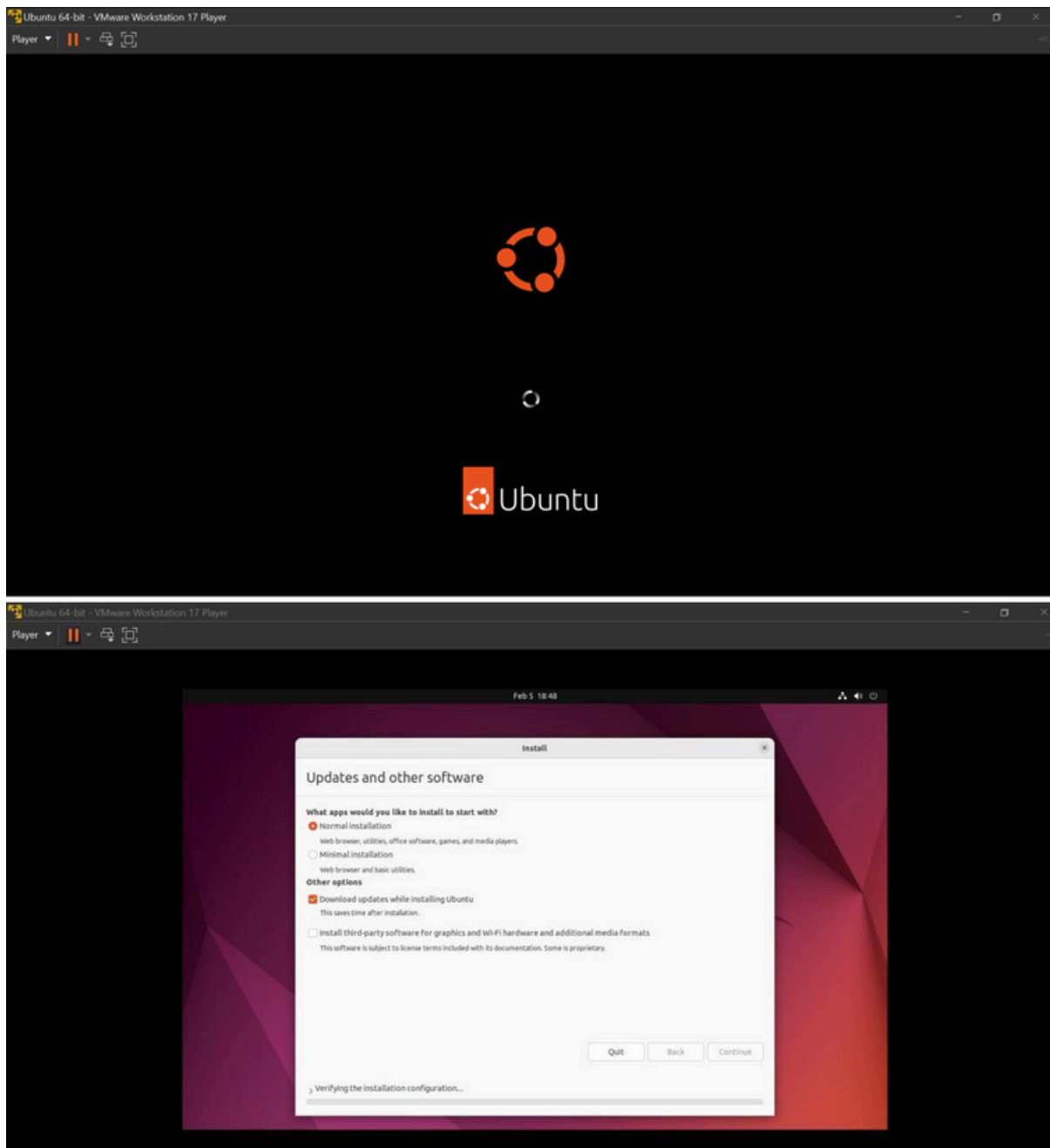
## **Procedure**

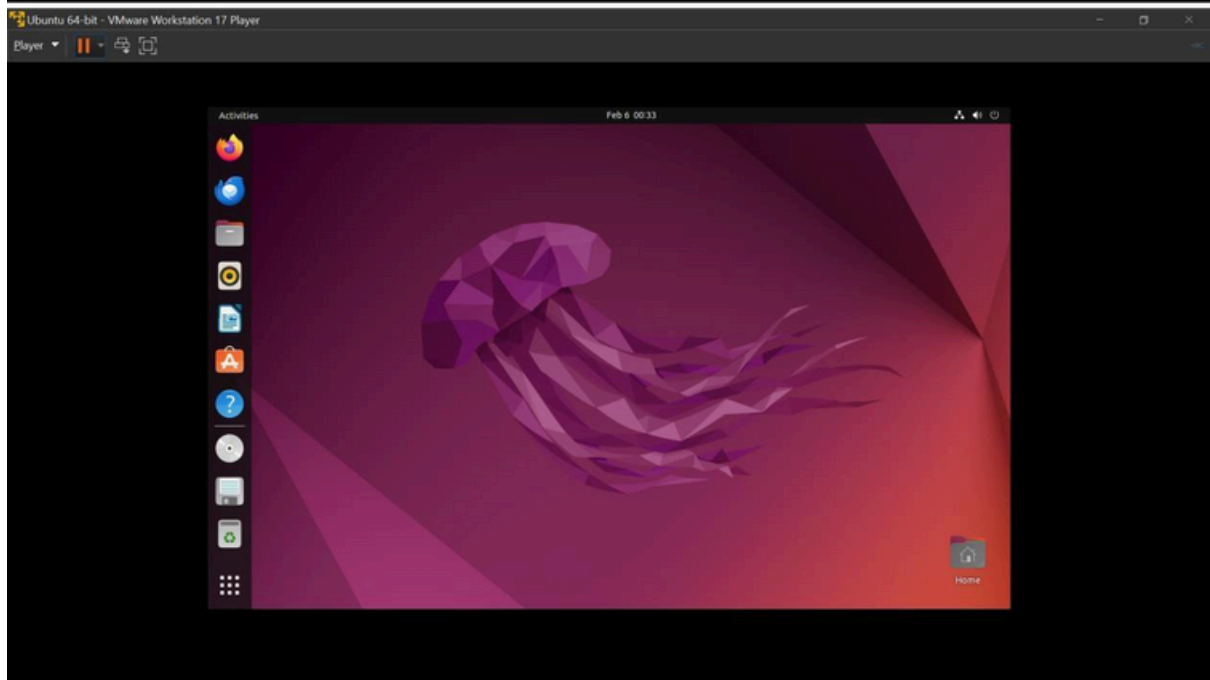
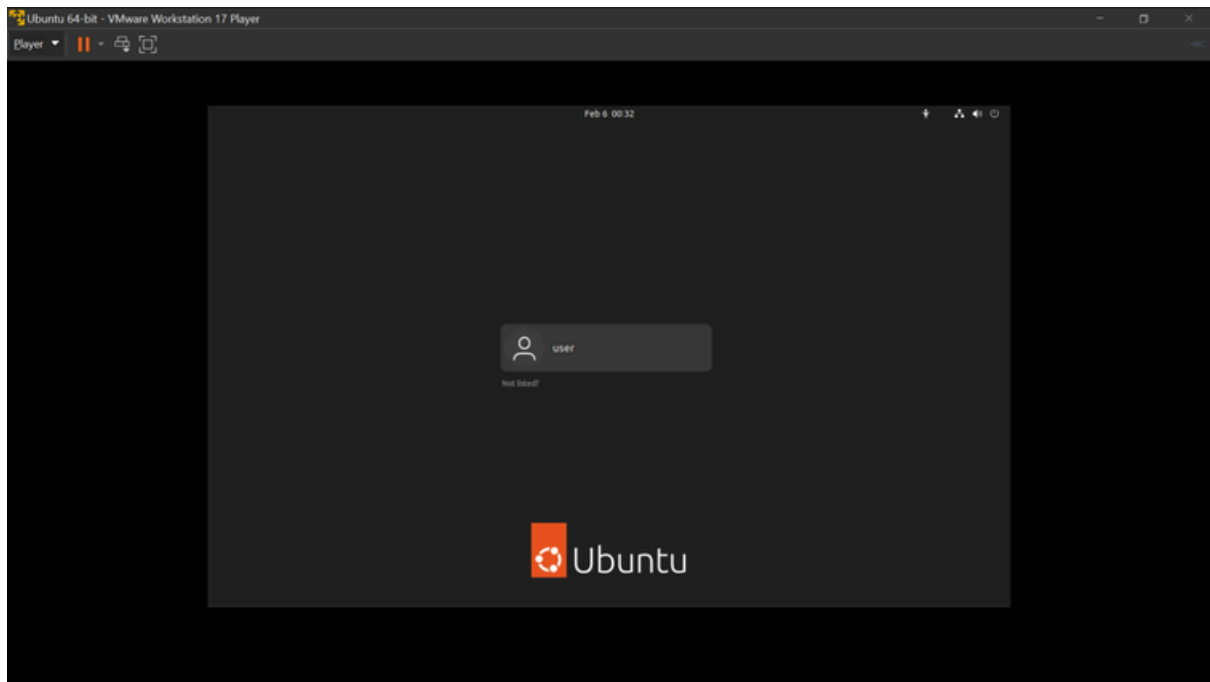
### **Local Virtual Machine (Ubuntu)**

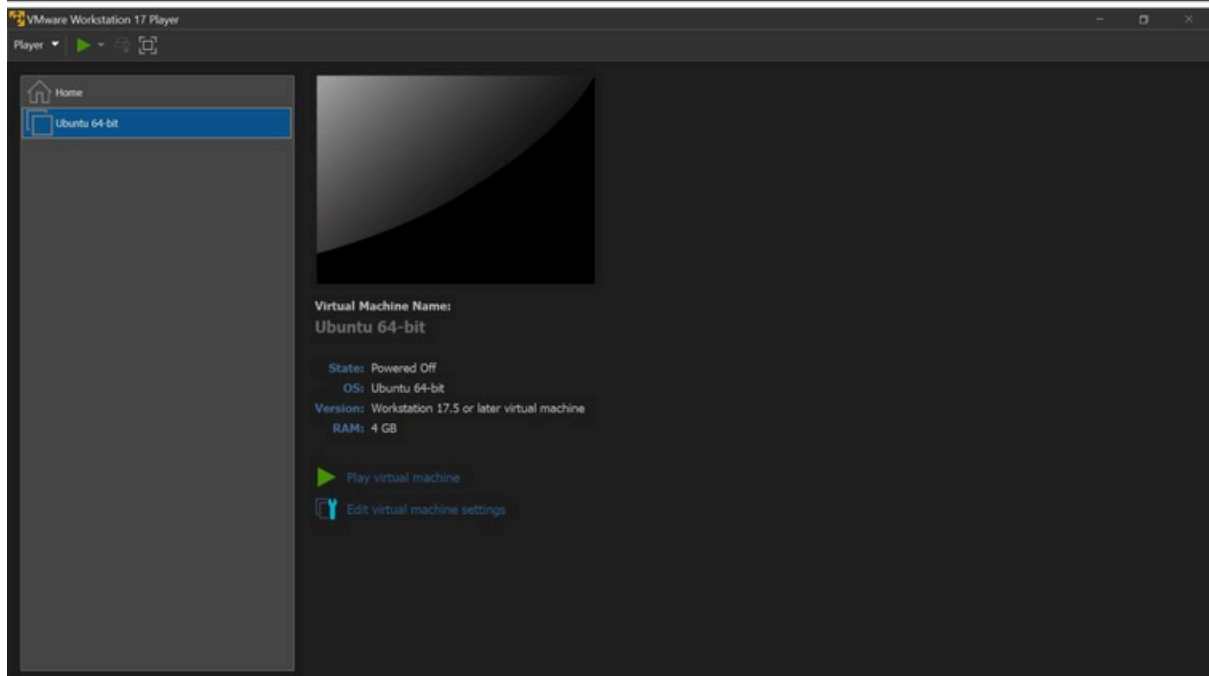
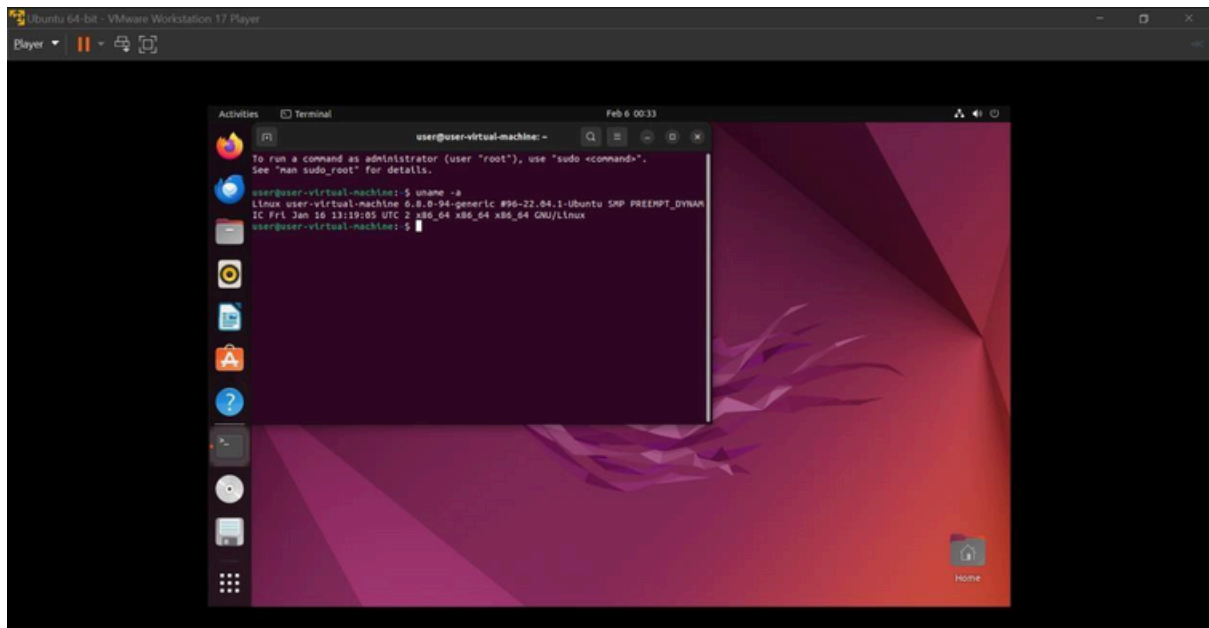
- ❖ Installed VMware Workstation and launched the application.
- ❖ Created a new virtual machine and selected the Ubuntu ISO file.
- ❖ Allocated system resources such as RAM, processor, and storage.
- ❖ Installed the Ubuntu operating system by following the setup instructions.

- ❖ Logged into the system and verified functionality using terminal commands.

## Outputs:

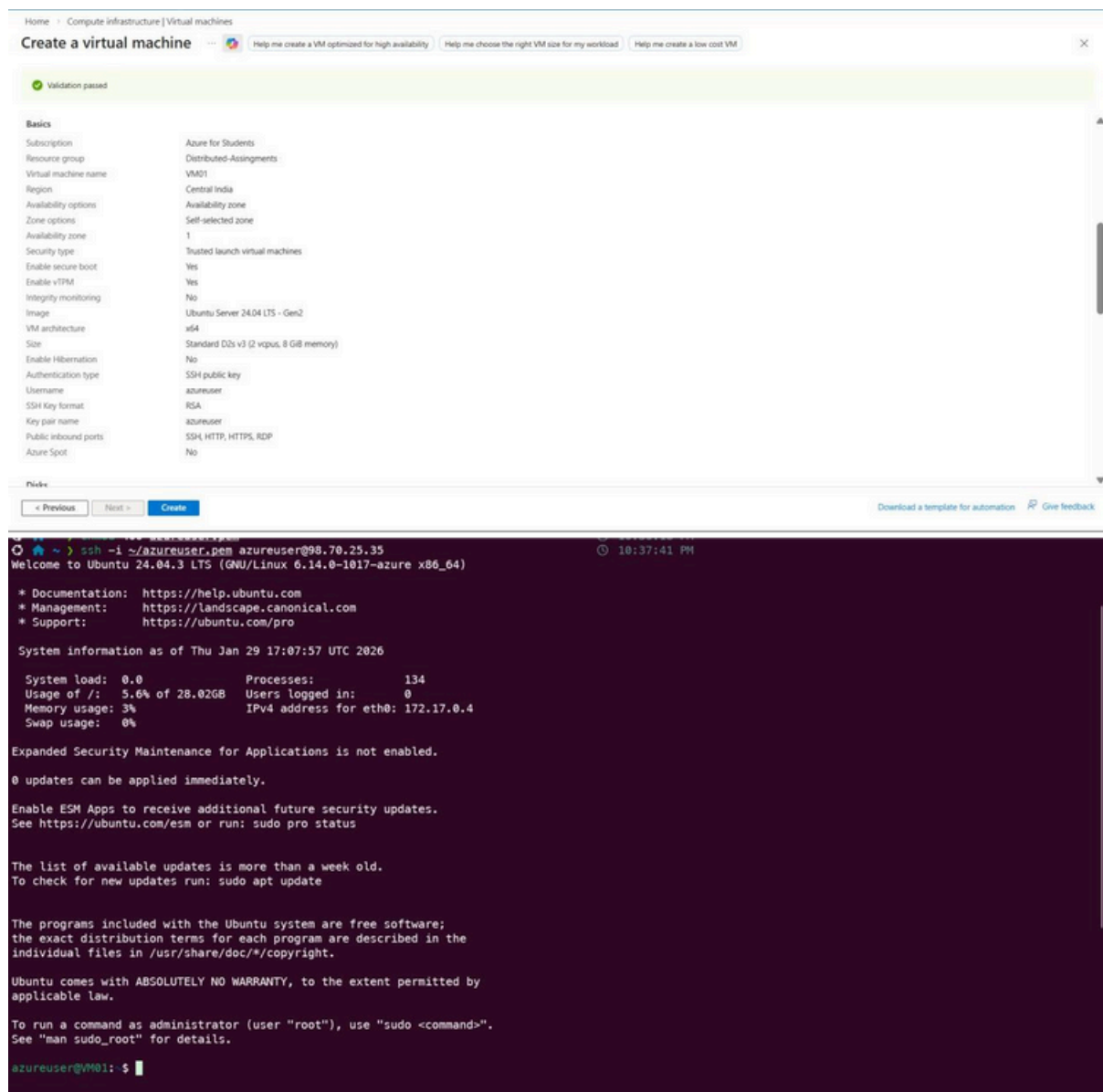






## Cloud Virtual Machine (Azure)

1. Logged into the Microsoft Azure portal.
2. Created a new virtual machine by selecting the required OS and size.
3. Configured networking settings and security rules.
4. Launched the VM and obtained the public IP address.
5. Connected to the virtual machine remotely using SSH and verified its operation.



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**Result:** Both local and cloud virtual machines were successfully created, configured, and accessed. The Ubuntu VM operated on VMware, while the Azure VM was deployed and managed through the cloud.

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**Conclusion:**

This experiment helped in understanding virtualization concepts by implementing both local and cloud-based virtual machines, demonstrating their importance in modern computing environments.

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