SUGANTHARAJ
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12. Demonstrate virtualization by Installing Type-2 Hypervisor in your device, create and configure VM image with a Host Operating system (Either Windows/Linux), using VMware workstation.
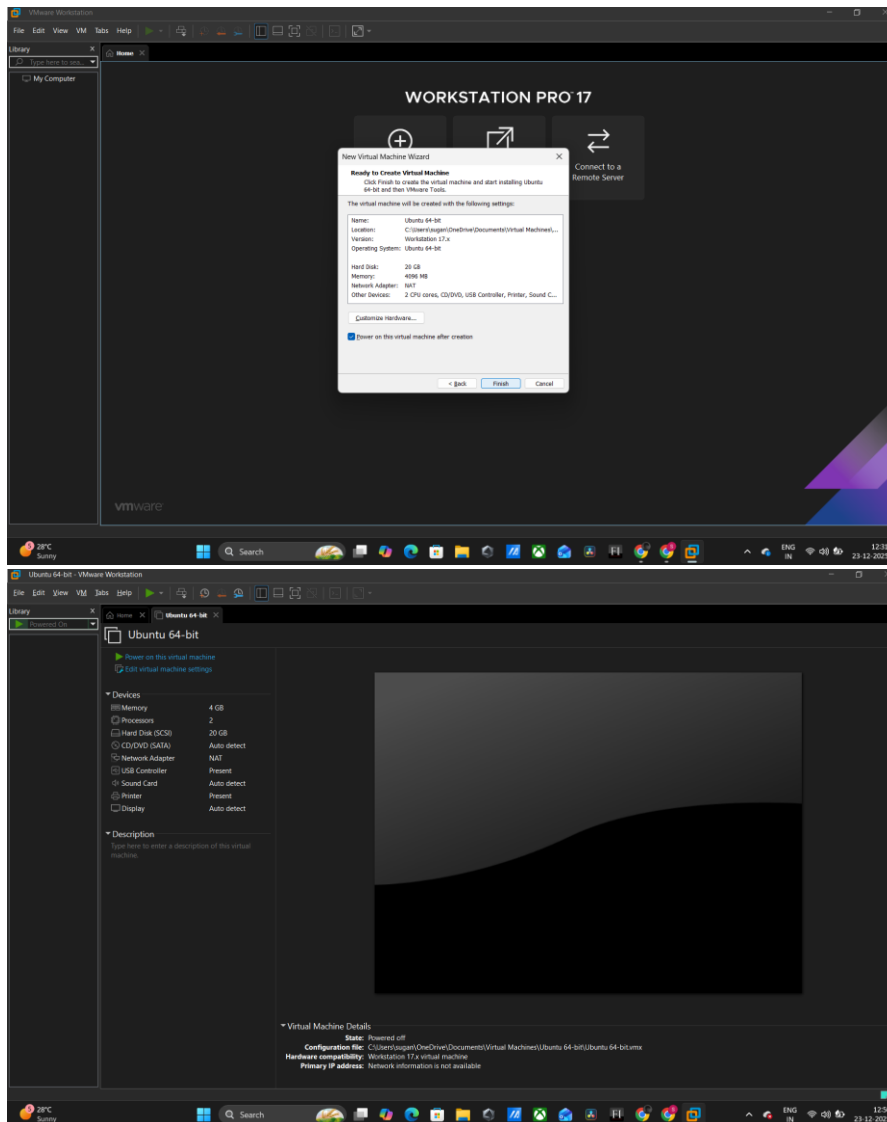
Aim

To demonstrate virtualization by installing a Type-2 Hypervisor (VMware Workstation) on the host system and creating, configuring, and running a virtual machine with a guest operating system (Ubuntu Linux).

Procedure

1. Ensure that **hardware virtualization (Intel VT-x / AMD-V)** is enabled in the BIOS of the system.

2. Download and install **VMware Workstation Player** on the host operating system.

3. Download the **Ubuntu Linux ISO file** from the official Ubuntu website.

4. Open **VMware Workstation Player** and click on **Create a New Virtual Machine**.

5. Select **Installer disc image file (ISO)** and browse to select the downloaded Ubuntu ISO file.

6. Choose the **Guest Operating System** as **Linux** and the version as **Ubuntu (64-bit)**.

7. Enter a suitable **name for the virtual machine** and select the default storage location.

8. Allocate **disk space** (minimum 20 GB) for the virtual machine and select **Store virtual disk as a single file**.

9. Click on **Customize Hardware** and configure:

   - **Memory**: 2 GB or higher

   - **Processors**: 2 cores

   - **Network Adapter**: NAT

10. Click **Finish** to create the virtual machine.

11. Power on the virtual machine and follow the on-screen instructions to **install Ubuntu Linux**.

OUTPUT

Result

Virtualization is successfully demonstrated by installing and running Ubuntu Linux as a guest operating system inside VMware Workstation. The virtual machine operates independently using virtualized CPU, memory, storage, and network resources provided by the Type-2 hypervisor.