

EXPERIMENT 12

Demonstration of Virtualization by Installing a Type-2 Hypervisor and Creating a Virtual Machine using VMware Workstation

Aim

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

Procedure

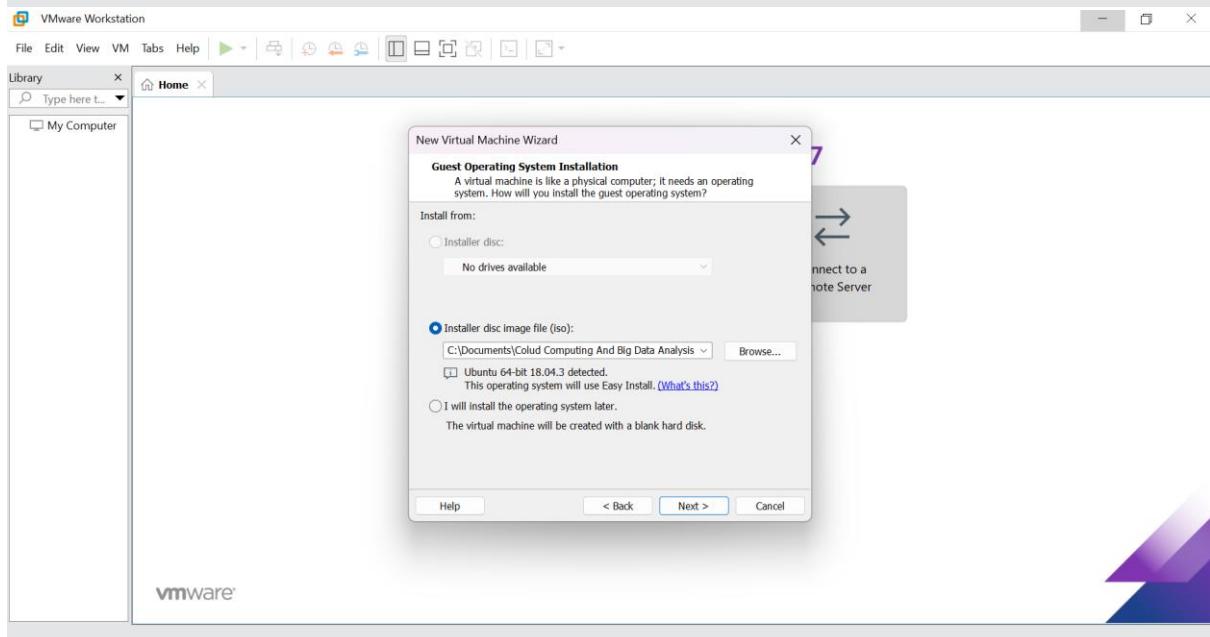
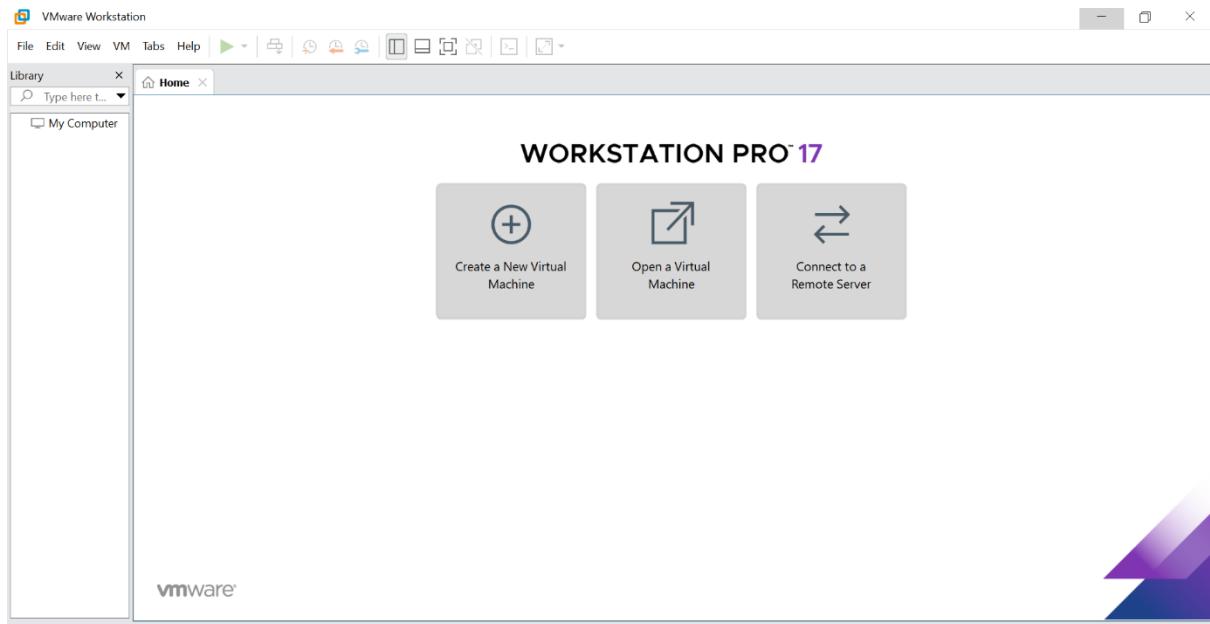
1. Download VMware Workstation from the official VMware website.
2. Install VMware Workstation on the host operating system (Windows/Linux).
3. Launch VMware Workstation after successful installation.
4. Select **Create a New Virtual Machine**.
5. Choose the installer disk image file (ISO) of the guest operating system.
6. Configure virtual machine settings such as:
 - o Virtual CPU
 - o Memory (RAM)
 - o Storage (Virtual Hard Disk)
 - o Network Adapter
7. Complete the virtual machine creation wizard.
8. Start the virtual machine.
9. Install the guest operating system inside the virtual machine.
10. Verify successful virtualization by accessing the guest OS within VMware Workstation.

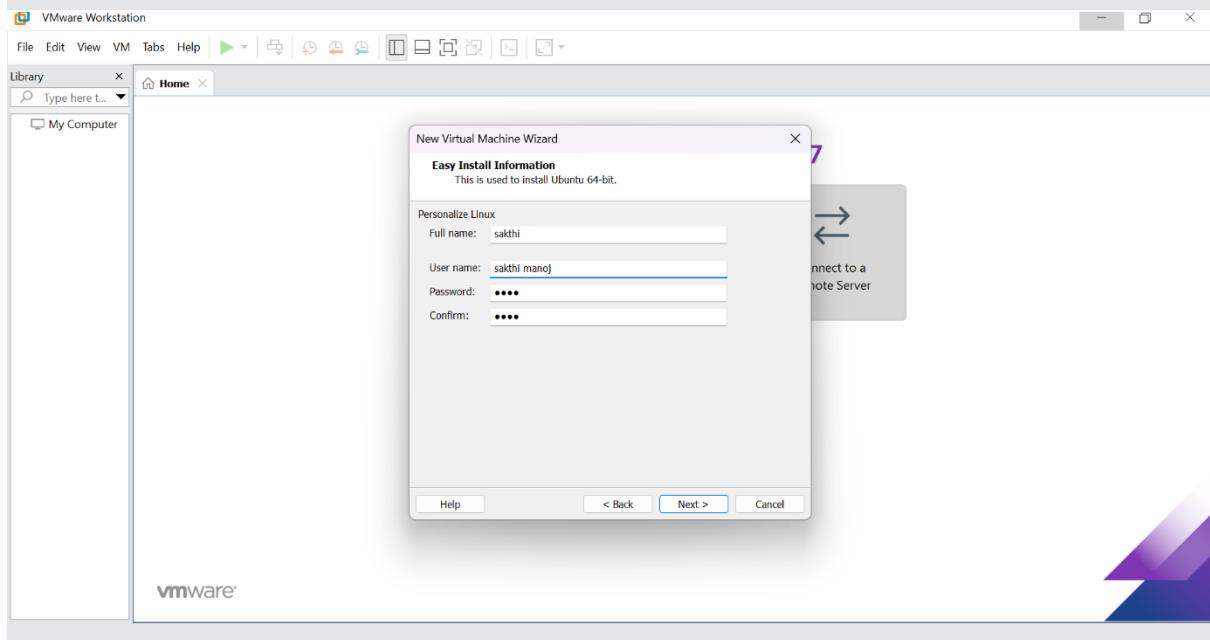
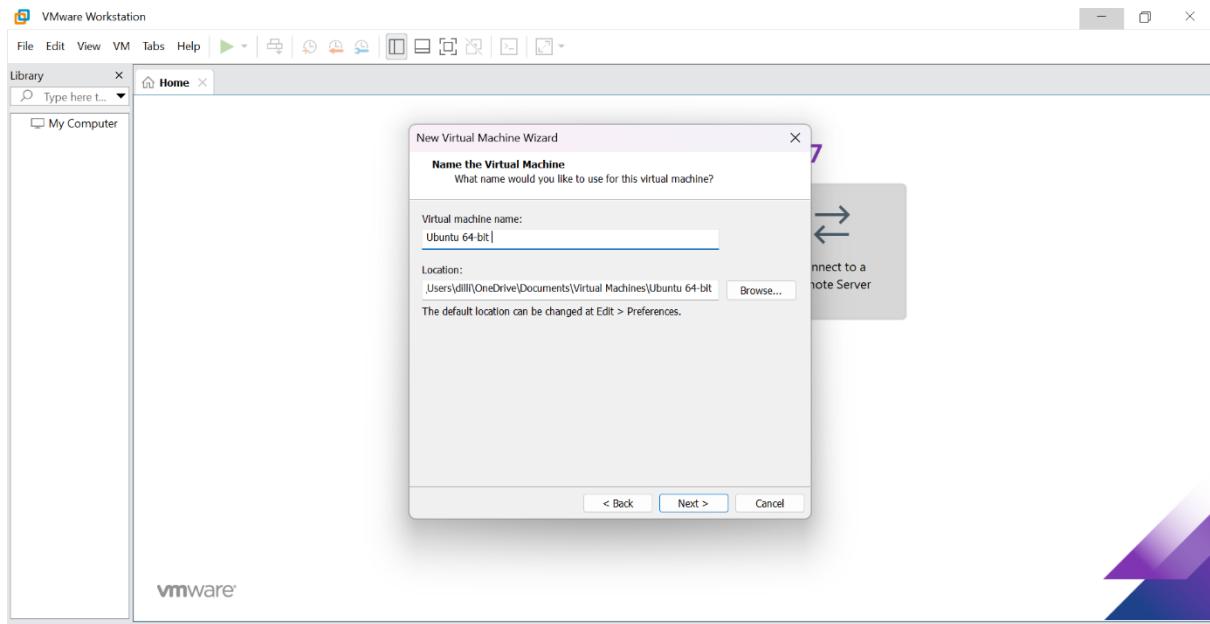
Sample Configuration Details

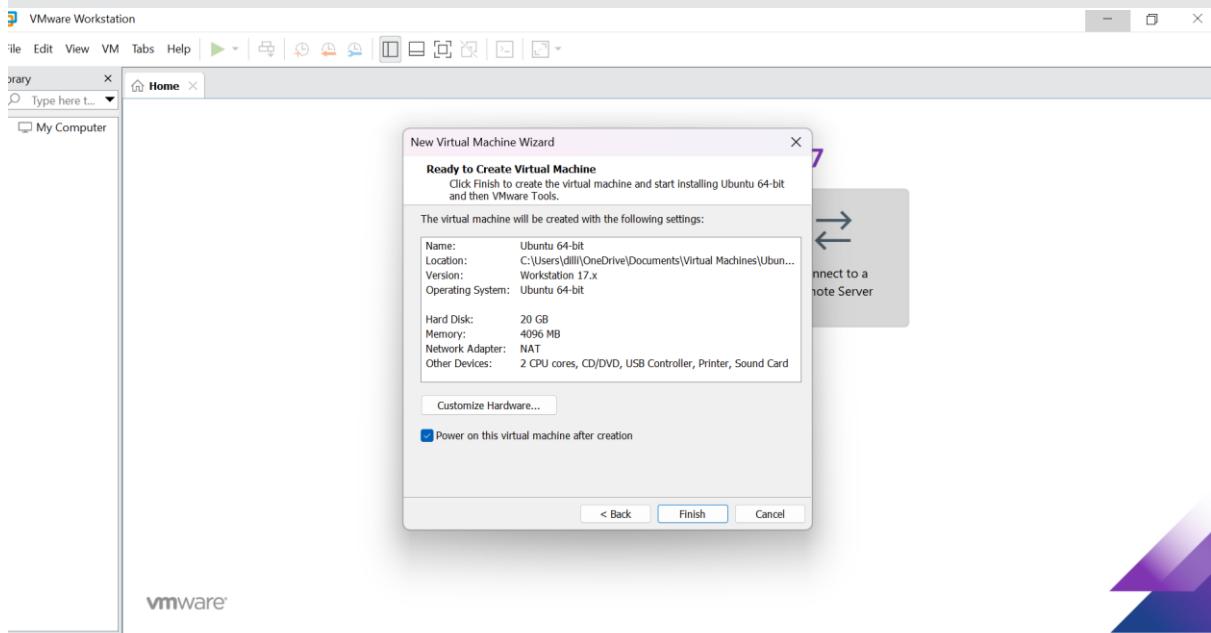
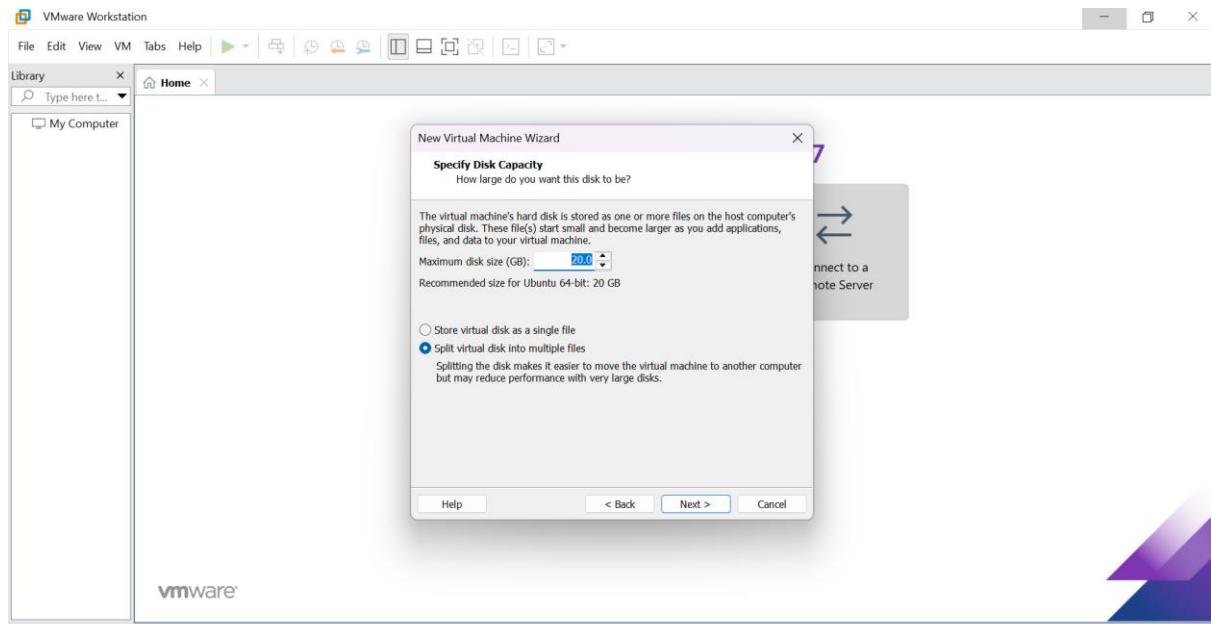
- **Host Operating System:** Windows 10
- **Hypervisor:** VMware Workstation
- **Guest Operating System:** Ubuntu Linux / Windows 10
- **RAM Allocated:** 4 GB
- **Virtual Hard Disk:** 40 GB
- **Processor:** 2 Virtual CPUs

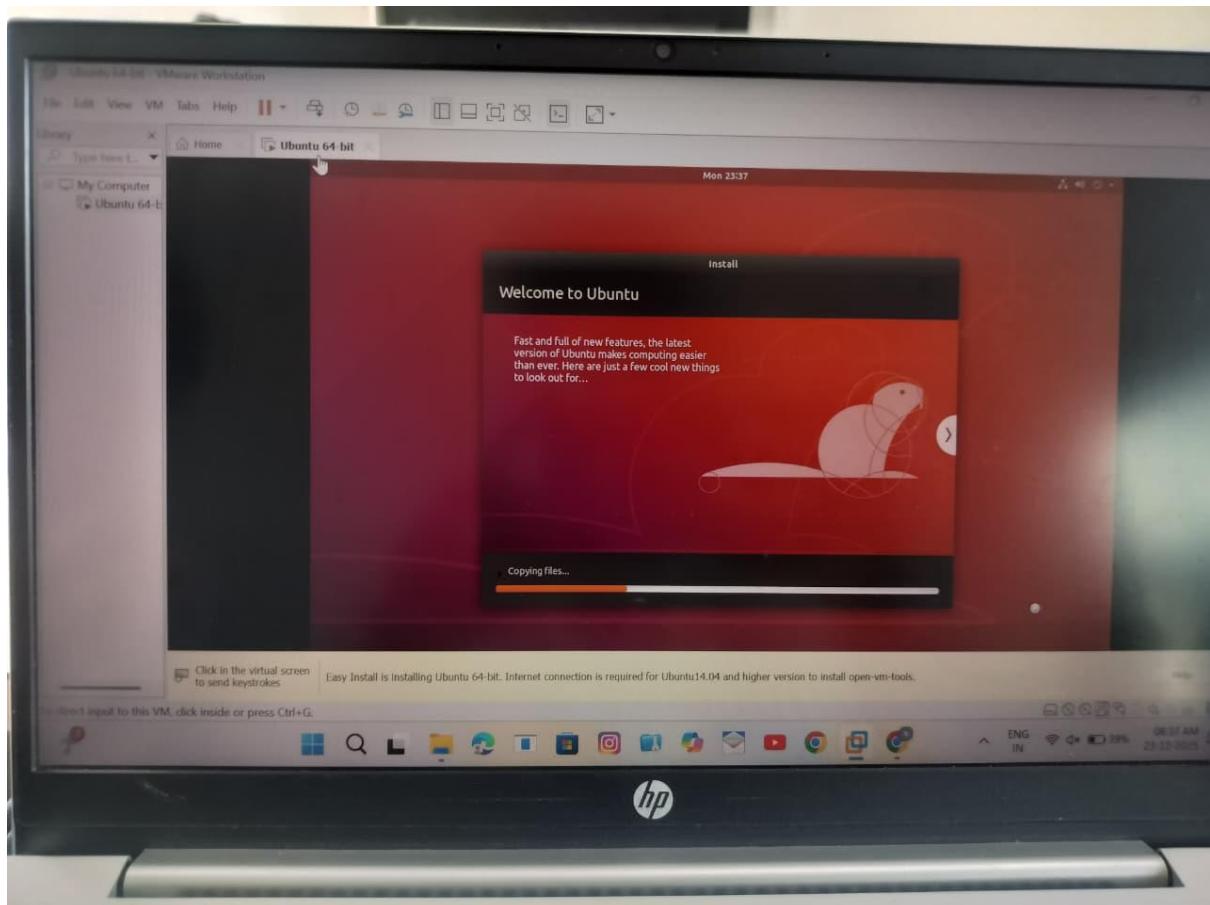
Output

- VMware Workstation successfully installed on host system.
- Virtual Machine created and configured with selected resources.
- Guest operating system installed and running inside the virtual environment.
- Host and guest operating systems running simultaneously, demonstrating virtualization.









Result

Thus, virtualization was successfully demonstrated by installing a Type-2 Hypervisor (VMware Workstation) and creating and configuring a virtual machine with a guest operating system.