EXPERIMENT 12

Aim

To demonstrate virtualization by installing a Type-2 Hypervisor (VMware Workstation) on a physical device and creating/configuring a Virtual Machine (VM) with a host operating system (Windows/Linux).

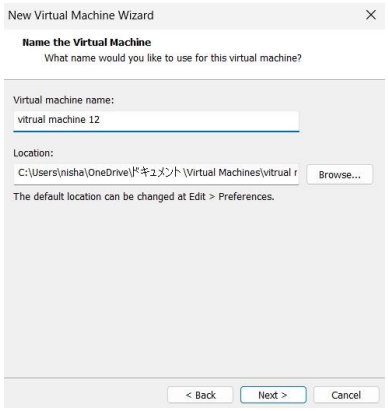
Procedure

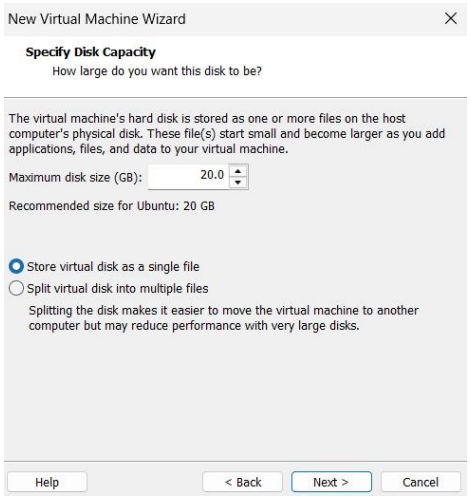
1. **Install VMware Workstation:**
    - Download VMware Workstation Pro or VMware Workstation Player from the official website: https://www.vmware.com.
    - Install it on your physical device (Windows/Linux host system).
2. **Download Guest OS ISO File:**
    - Choose the OS to install (e.g., **Ubuntu Linux ISO** or **Windows 10 ISO**).
    - Keep the ISO image ready.
3. **Create a New Virtual Machine:**
    - Open VMware Workstation → Click **Create a New Virtual Machine**.
    - Choose **Typical (recommended)** setup.
    - Select **Installer disc image file (ISO)** and browse for your OS ISO.
4. **Set Guest Operating System Type:**
    - Select **Microsoft Windows** or **Linux** as per your ISO.
    - Select the OS version (e.g., Windows 10 x64 / Ubuntu 64-bit).
5. **Configure VM Hardware Resources:**
    - Assign **RAM** (2GB+ for Linux, 4GB+ for Windows).
    - Assign **Processors** (1–2 cores).
    - Create a **Virtual Hard Disk** (20GB+).
6. **Customize VM Settings (Optional):**
    - Enable **Network Adapter** (choose **NAT** or **Bridged**).
    - Configure **Display and Shared Folders** if needed.
7. **Install the Guest Operating System:**
    - Power on the VM.
    - Follow the OS installation steps (language, partitions, user creation).

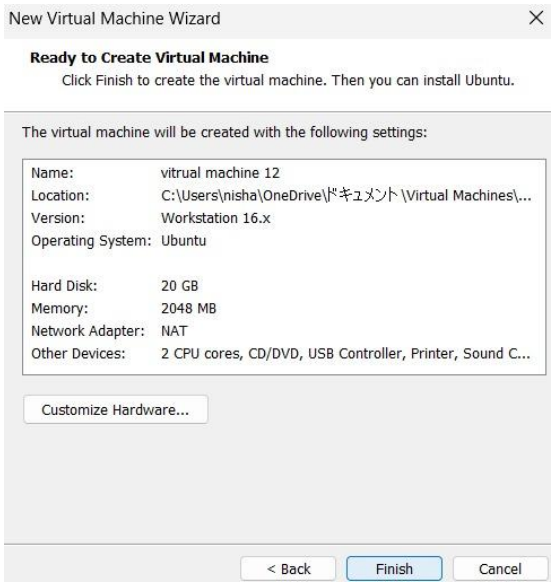
8. **Post Installation Setup:**
    - Install **VMware Tools** for better graphics, drag-and-drop, clipboard sharing.
    - Verify that networking, file sharing, and system performance work correctly.

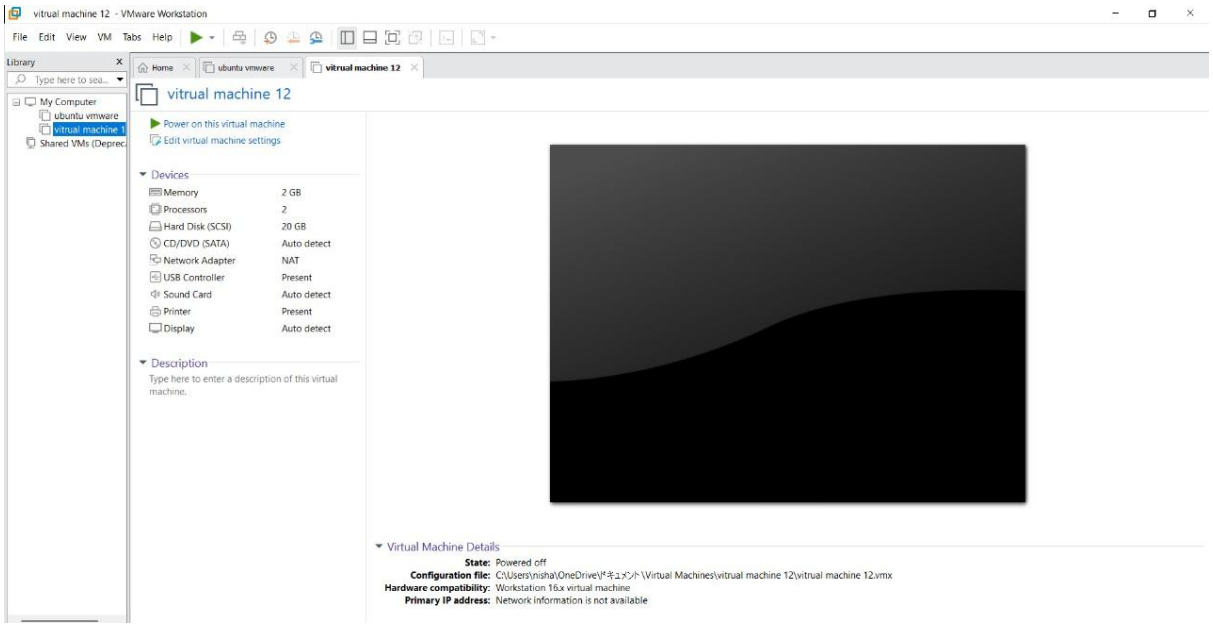
Output

- A fully functional **Virtual Machine** created inside VMware Workstation.
- Example outputs (if screenshots are provided in real lab):
    1. VMware Workstation dashboard showing created VM.
    2. Boot screen of the chosen OS.









Result

Virtualization was successfully demonstrated by using **VMware Workstation (Type-2 Hypervisor)**. A Virtual Machine was created, configured, and installed with a host operating system (Windows/Linux), showing the ability to run multiple operating systems on a single physical device.