Assignment 1

Title: Creation and Configuration of Virtual Machines in VMWare Workstation Hypervisor

Aim: To create and configure two Virtual Machines (VMs) in the VMWare Workstation Hypervisor platform, with Windows 10 Pro and Ubuntu Linux OS as guest operating systems. Each VM will be allocated 2GB RAM and 20GB HDD, and named with a prefix of at least three characters. The specifications of the VMs will be demonstrated on the host machine, along with the functionality of certain applications.

Procedure for Windows 10 Pro Virtual Machine:

Step 1: Install VMware Workstation

- Download VMware Workstation from the official VMware website.
- Run the installer and follow the installation instructions.
- Restart the host machine if required after installation.

Step 2: Download Windows 10 Pro ISO

- Visit the official Microsoft website and download the Windows 10 Pro ISO.
- Save the ISO file in an easily accessible location.

Step 3: Create Windows 10 Pro Virtual Machine

- Open VMware Workstation and click Create a New Virtual Machine.
- Select Custom (Advanced) Setup and click Next.
- Choose Installer disc image file (ISO) and browse to the downloaded Windows 10 Pro ISO.
- Click Next and set the Virtual Machine Name (e.g., SR-Win10).
- Specify the storage location for the virtual machine.
- Allocate 2GB RAM and select 1 or 2 processor cores as required.
- Set Hard Disk size to 20GB and choose Store virtual disk as a single file.
- Configure the Network Adapter as NAT or Bridged.
- Review the summary and click Finish to create the VM.
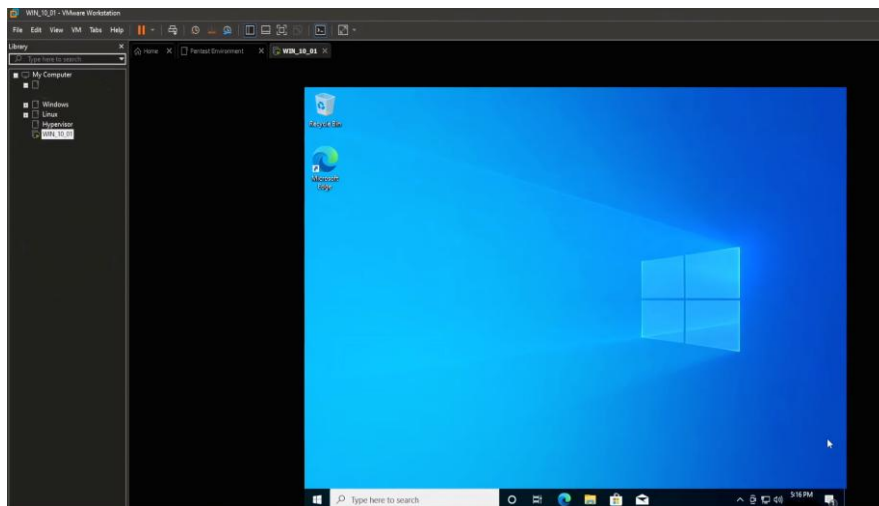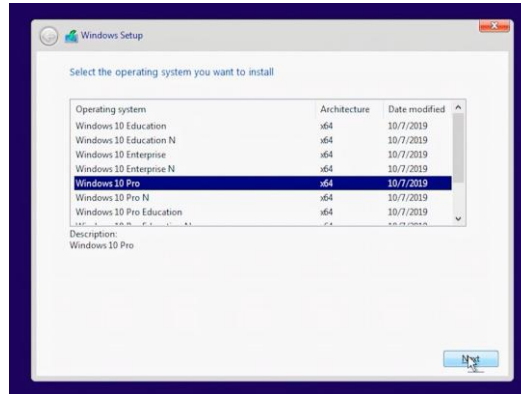
Step 4: Install Windows 10 Pro

- Start the Windows 10 VM and boot from the ISO.
- Follow the on-screen instructions:
  - Select language and keyboard preferences.
  - Click Install Now.
  - Choose Custom Installation and select the allocated 20GB HDD partition.
  - Allow Windows installation to complete.
- Once installed, set up the user account, password, and system settings.
- Restart the VM when prompted.

Step 5: Install VMware Tools for Windows 10

- In the VMware menu, go to Player > Manage > Install VMware Tools.
- Open File Explorer, go to This PC, and run VMware Tools Setup.
- Follow the installation steps and restart the VM to apply changes.

Screenshots:

Procedure for Ubuntu Linux Virtual Machine:

Step 1: Install VMware Workstation

- Same as followed before

Step 2: Download Ubuntu Linux ISO

- Visit the official Ubuntu website and download the latest stable Ubuntu Desktop ISO.
- Save the file in an easily accessible location.

Step 3: Create Ubuntu Linux Virtual Machine

- Open VMware Workstation and click Create a New Virtual Machine.
- Select Custom (Advanced) Setup and click Next.
- Choose Installer disc image file (ISO) and browse to the Ubuntu Linux ISO.
- Click Next and set the Virtual Machine Name (e.g., SR-Ubuntu).
- Specify the storage location for the virtual machine.

- Allocate 2GB RAM and select 1 or 2 processor cores.
- Set Hard Disk size to 20GB and choose Store virtual disk as a single file.
- Configure the Network Adapter as NAT or Bridged.
- Review the summary and click Finish to create the VM.

Step 4: Install Ubuntu Linux OS

- Start the Ubuntu VM and boot from the ISO.
- Select Install Ubuntu and follow the installation steps:
  - Choose language and keyboard layout.
  - Select Erase disk and install Ubuntu.
  - Create a user account and password.
- Allow installation to complete, then restart the VM.

Screenshots:

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