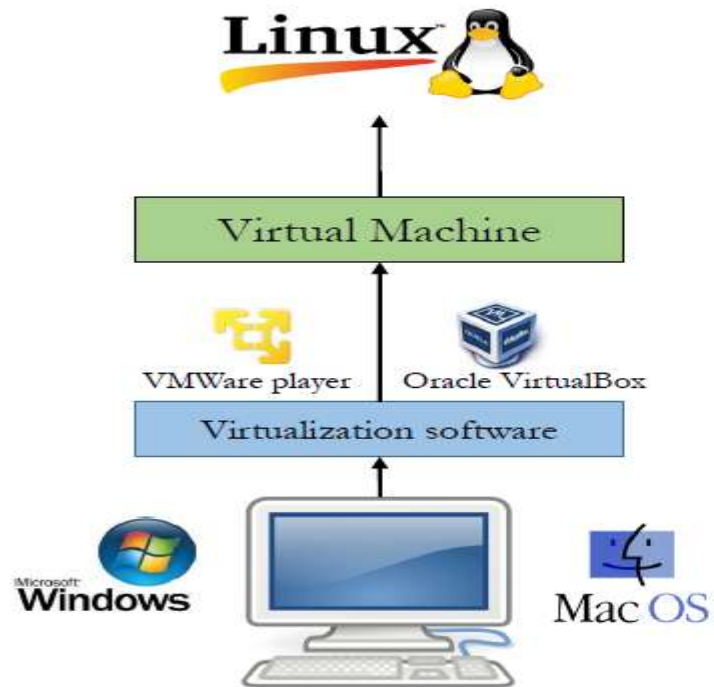


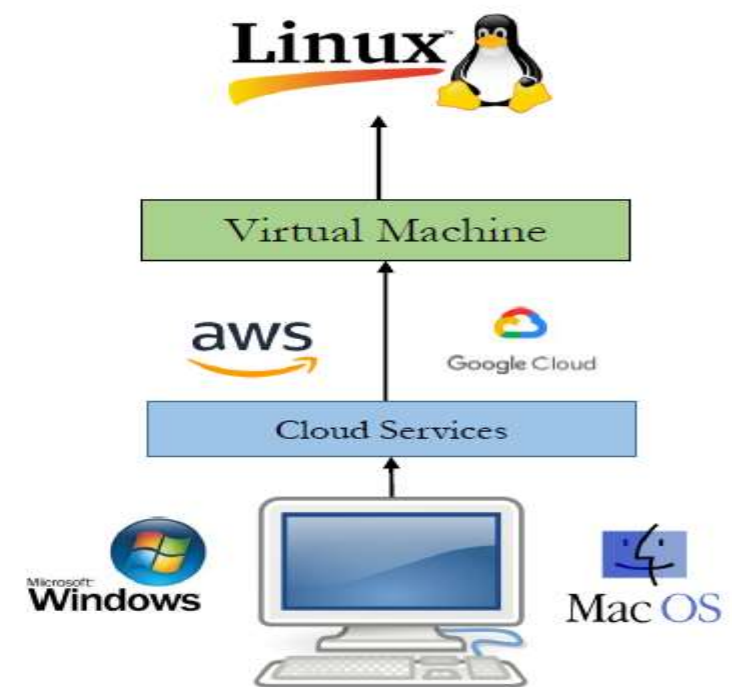
# Module 2 – Download & Install Linux

# Lab Design

## Option 1



## Option 2

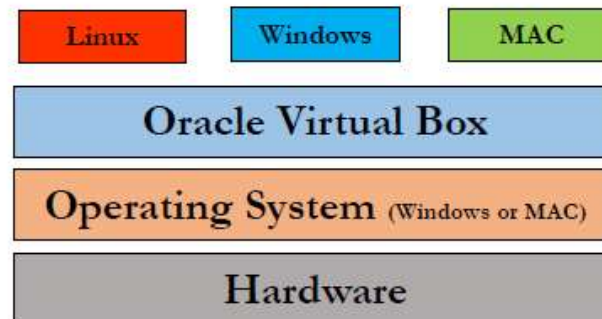


# What is VM ?

- ▶ A **virtual machine (VM)** is a software-based emulation of a physical computer.
- ▶ It runs an operating system and applications just like a physical computer
- ▶ It is hosted on a physical machine, often called the host, which provides the resources and environment needed for the VM.
- ▶ **Virtualization** is a process that allows a computer to share its hardware resources with multiple digitally separated environments.

# Oracle virtual box

- VirtualBox is a free and open-source hypervisor for x86 computers currently being developed by Oracle Corporation
- It installs on your existing Intel or AMD-based computers, whether they are running Windows, Mac, Linux or Solaris operating systems. It extends the capabilities of your existing computer so that it can run multiple operating systems on one hardware at the same time



# Vmware Workstation

- ▶ **VMware Workstation** is a virtual machine software that is used for x86 and x86-64 computers to run multiple operating systems over a single physical **host** computer.
- ▶ Each **virtual machine** can run a single instance of any operating system (Microsoft, Linux, etc.) simultaneously
- ▶ VMware Workstation was launched by VMware in **2001**.

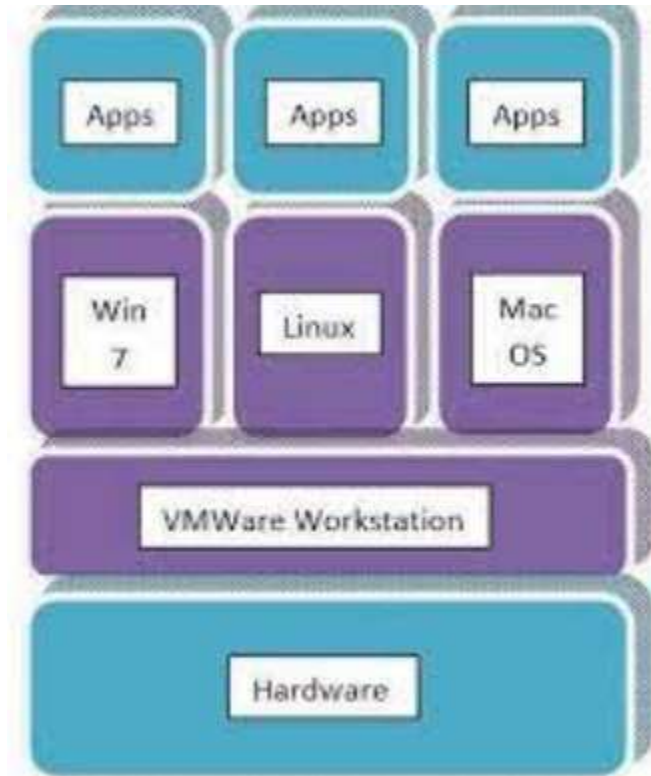
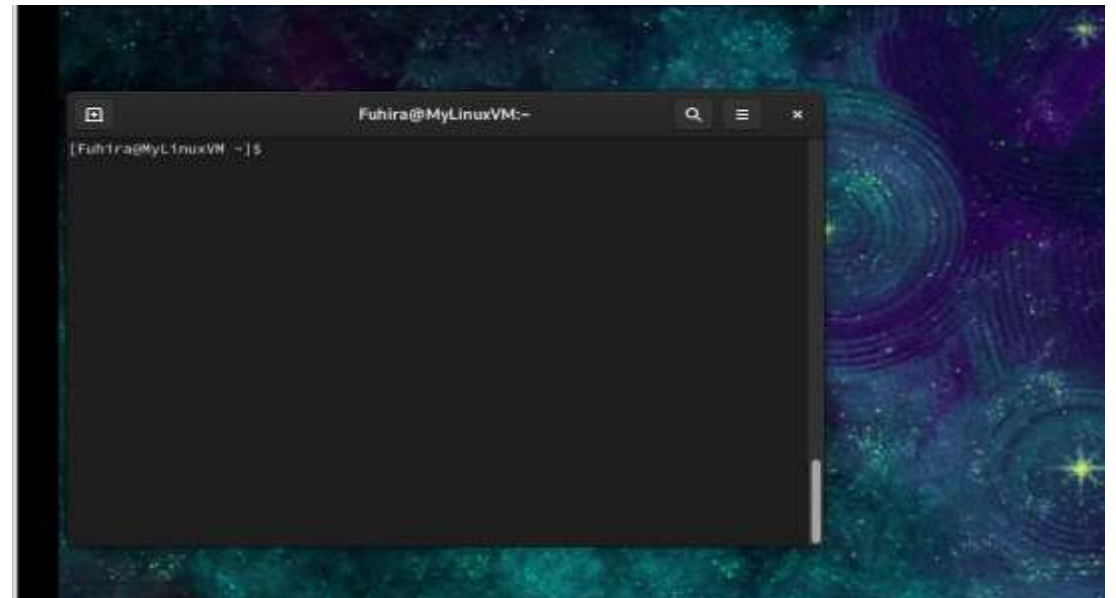
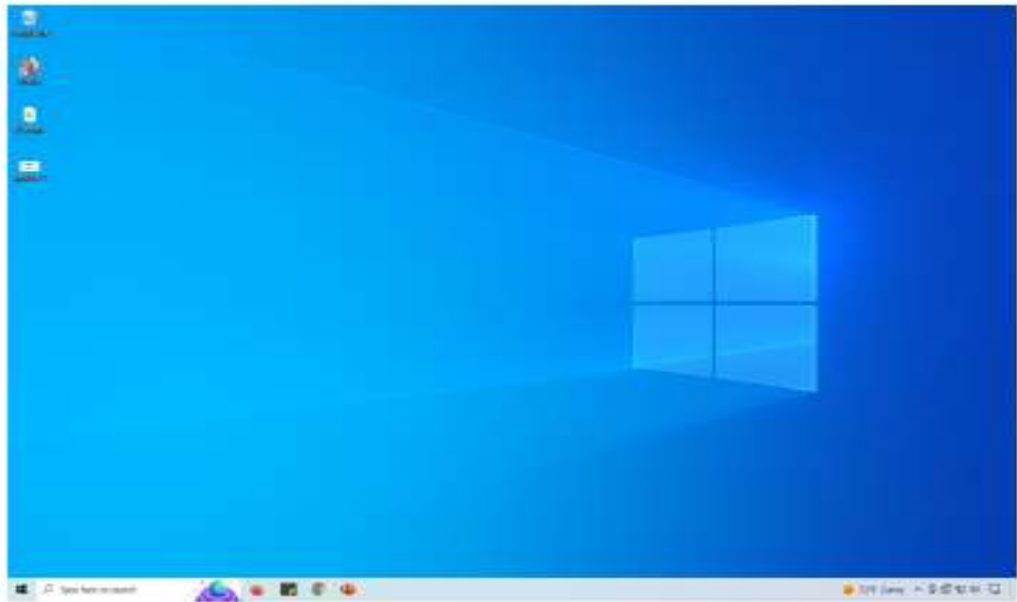


Fig: A Simple VMWare Architecture

# Access to Linux System

- ▶ There are **2 types** of **access**
  - ▶ **Console**
    - ▶ **Direct** access to the operating system



## ► Remote

- Connect remotely to the operating system over a network

