

## Three Way to USE LINUX

- Three Way to use LINUX system on Window.
  - Install Hypervisor on your machine and install SUSE Linux on virtual machine.
  - Build Dual-Boot System.
  - Install LINUX emulator on Window System (Mac)

## How to Install Virtual Machine

- Virtual Machine and Structure
- How to install virtual machine on your system
  - Download and install VM Virtual Box (Hypervisor)
  - Download open SUSE image
  - Install Open SUSE image on VM Virtual Box

## Structure of Operating System (Virtual Machine)

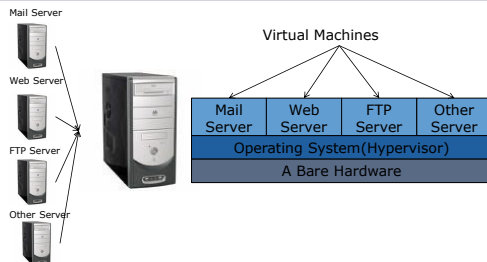
- Virtual machine runs on the bare hardware and does multiprogramming, by providing several virtual machines.
- Each virtual machines are exact copies of the bare hardware, including kernel/user mode, I/O and everything else the real machine has.
- Different virtual machine can run different operating system.

## Structure of Operating System (Virtual Machine)

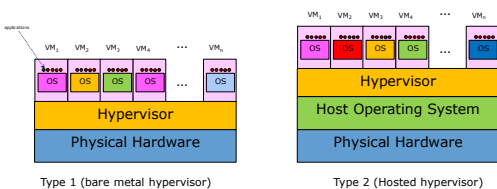
### Example of virtualization

- Many companies have traditionally run their mail servers, Web servers, FTP servers and other servers on separate computer with different operating system.
- Several server can run on the same machine without having a crash of one server bring down the rest since each server running on different virtual machine.

## Structure of Operating System (Virtual Machine)



## Structure of Operating System (Virtual Machine)



Type 1 (bare metal hypervisor)

Type 2 (Hosted hypervisor)

## How to Install VM on Your Computer

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- Need download and install VM Virtual Box (Hypervisor)
  - <https://www.virtualbox.org/wiki/Downloads>
- Need download open SUSE image (or Ubuntu)
  - <https://software.opensuse.org/developer/en?release=developer>
  - <https://ubuntu.com/download/desktop>
- Initiate VM Virtual Box and install new operating system by selecting downloaded open SUSE image
- You can find out Youtube video how to install step by step
  - <https://www.youtube.com/watch?v=5sa0acU4pmY>