

Hypervisor

1. VMware

- VMware provides cloud computing and platform virtualization software and Services
- its desktop software runs on Microsoft Windows, Linux, and macOS
- it has type 1 hypervisors that run directly on server hardware without requiring an additional underlying operating system.

2. Virtualization

- Traditional Approach
 - Individual applications running on individual systems
 - Wastage of resources
 - Applications are OS and hardware bound
- In computing, virtualization means to create a virtual version of a device or Resource, such as a server, storage device, network or even an operating System where the framework divides the resources into one or more execution environments.
- Devices, applications and human users are able to interact with the virtual resources as if it were a real single logical resource
- Even something as simple as partitioning a hard drive is considered virtualization because you take one drive and partition it to create two separate hard drives
- The term virtualization has become somewhat of a buzzword, and as a result the term is now associated with a number of computing technologies including the following:
 1. Operating System
 2. Application server
 3. Application
 4. Administrative
 5. Network
 6. Hardware
 7. Storage

3. Hypervisor

- A hypervisor or virtual machine monitor (VMM) is computer software, firmware or hardware that creates and runs virtual machines

- A computer on which a hypervisor runs one or more virtual machines is called a host machine , and each virtual machine is called a guest machine
- The hypervisor presents the guest os with a virtual operating platform and manages the execution of the guest os.
- Hypervisor having two types
 1. Bare metal Hypervisor
 2. Host OS Hypervisor