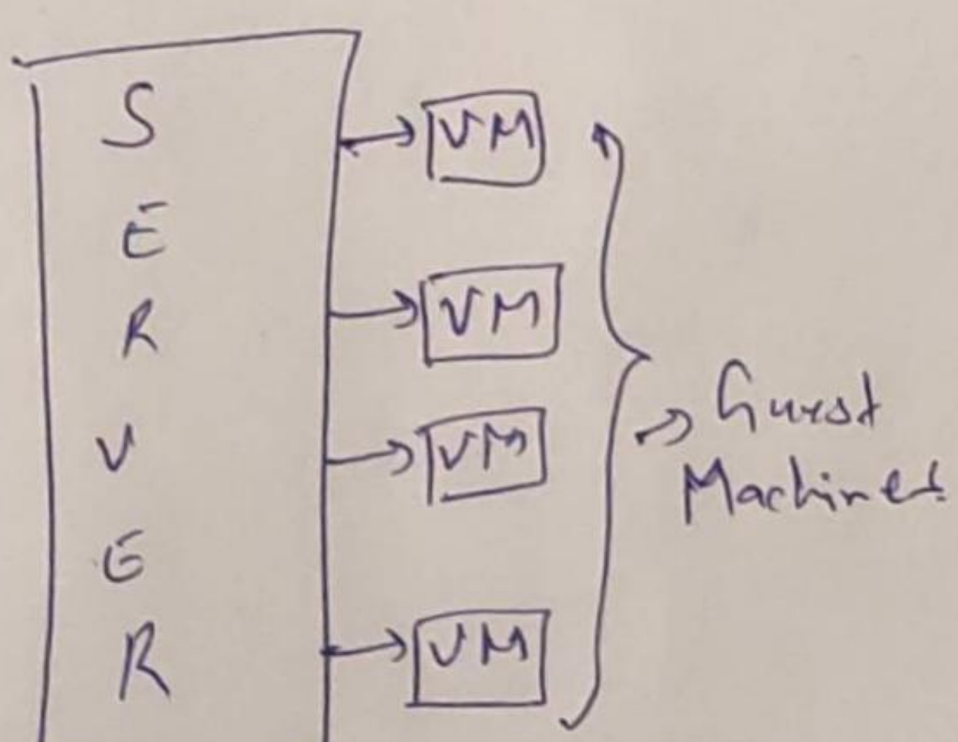
Virtualization

Unit-3



Hypervisor (VMM) is a software or program → It is used to create virtual machine.

Hypervisor is a virtual machine monitor.

A machine on which we create virtual machines is called host machine.

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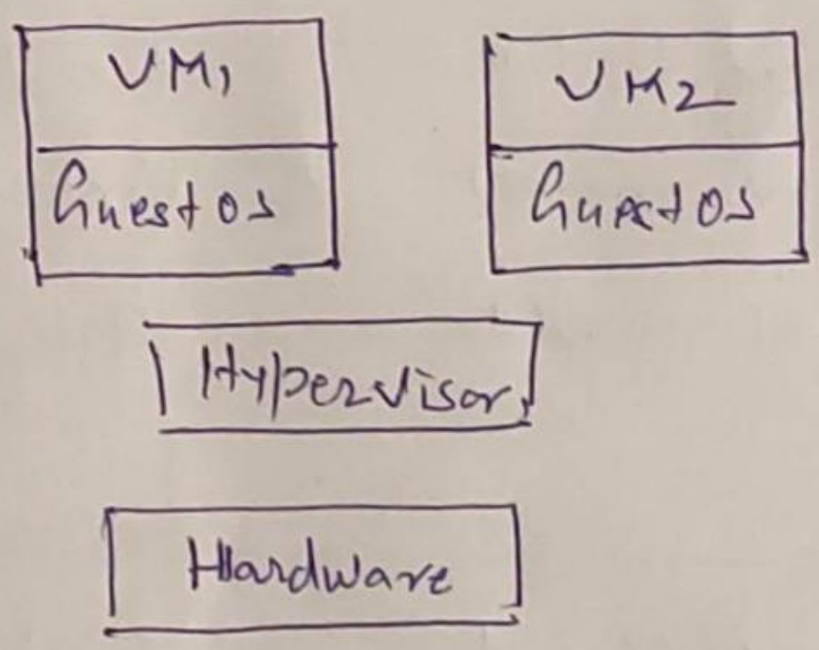
Type 1 Full Virtualization



→ Directly Ran on host h/w.

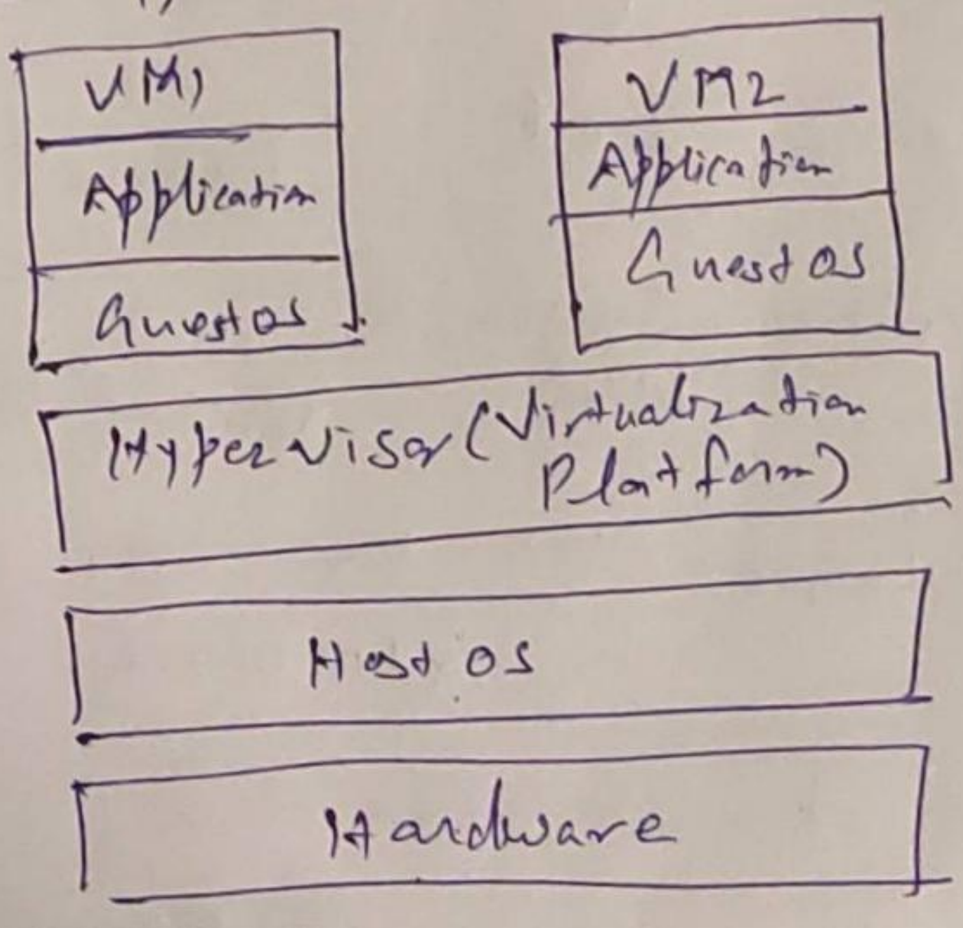
→ Stability is ~~xxxx~~ depends on Guest OS.

Paravirtualization Type 2

→ Hosted hypervisor.

(1) Guest OS is aware about virtualization

(2) Guest OS need to be modified.



Full Virtualization	Para Virtualization
(1) Type1 native or bare Metal hypervisor	Type2 or hosted hypervisor
(2) Directly runs on host hardware	Hypervisor installed over host OS.
(3) No base os, so stability is depend on guest os.	stability is depends on host OS, if host OS need to reboot.
(4) Guest OS is unware that it is in Virtual environment	Guest OS is Aware about Virtualization.
(5) Guest os is not need to modify	Guest OS is modified.

Virtualization — • Abstraction of computer resources.

• It refers to the creation of virtual resource such as server, file or network.

Level of Virtualization —

Application level — JVM

Library level — LxRun

Operating System Level — Virtual Environment

Hardware Abstraction layer — VMware

Instruction set architecture — BIRD