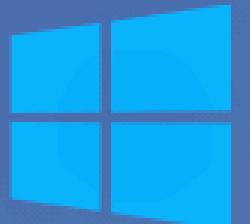


what are (VMs)?

Virtual Machines



[HINDI]

Virtualization

Virtual Machines

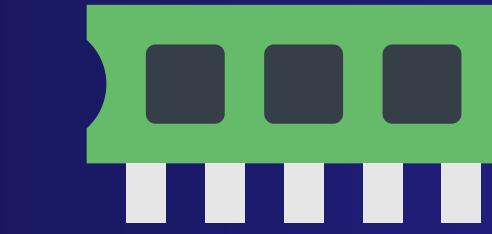


Why we need Virtual Machine?





Why we need Virtual Machine?



RAM, CPU, SDD

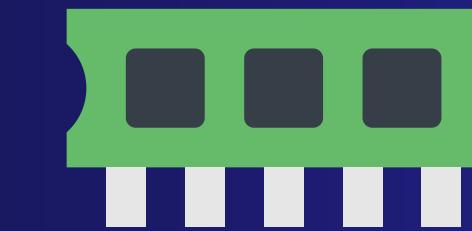
Hardware



Why we need Virtual Machine?



Windows OS



RAM, CPU, SDD

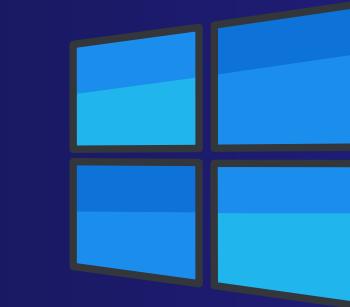
Hardware



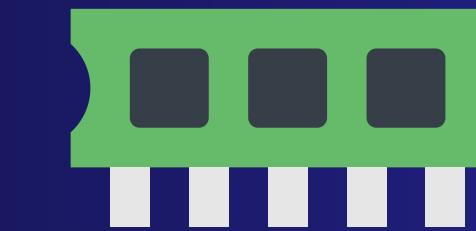
Why we need Virtual Machine?



Applications

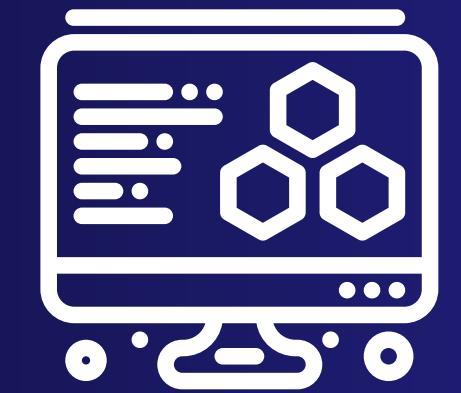


Windows OS

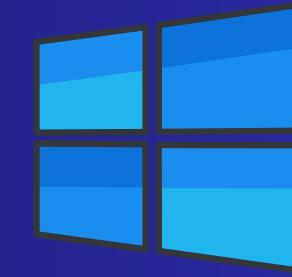
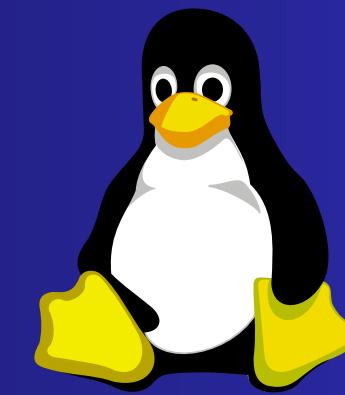


RAM, CPU, SDD

Hardware



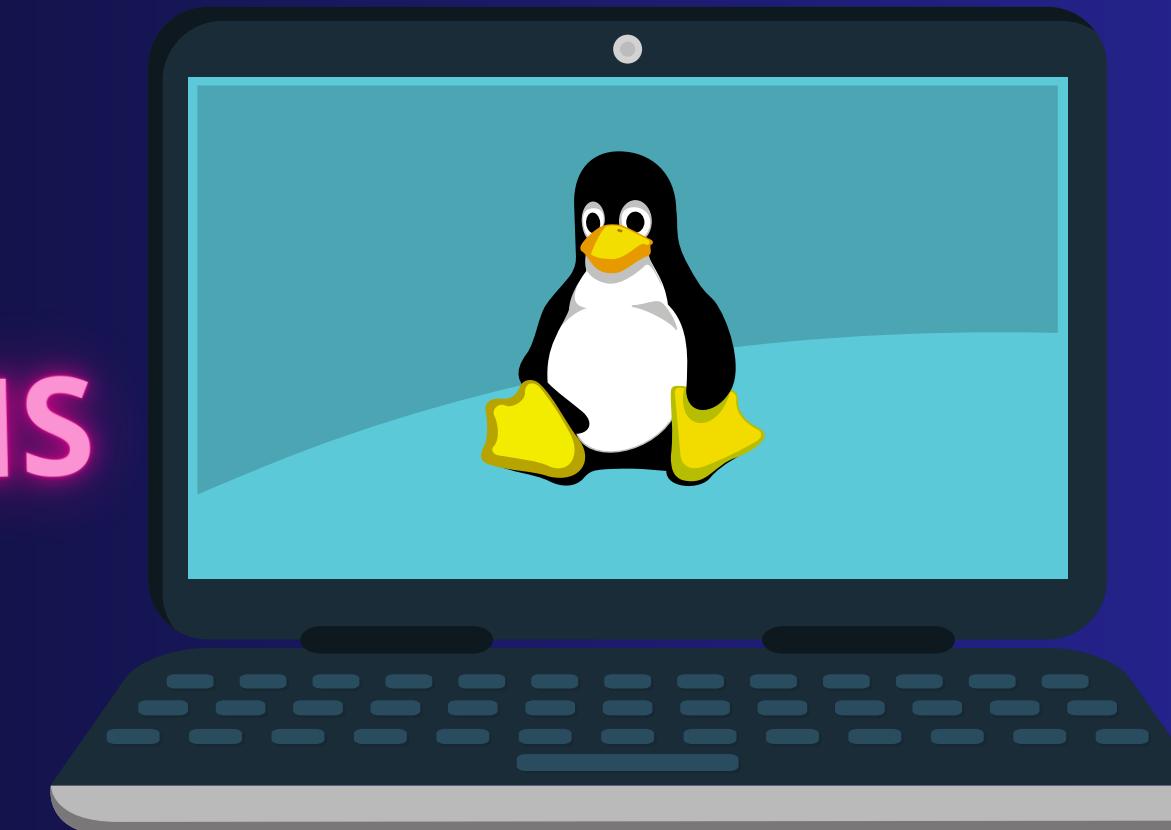
software





Why we need Virtual Machine?

RUN APPLICATIONS
ON LINUX?



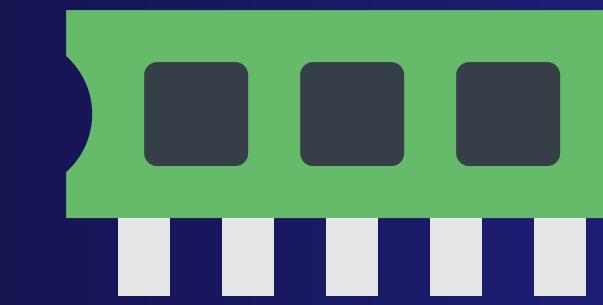
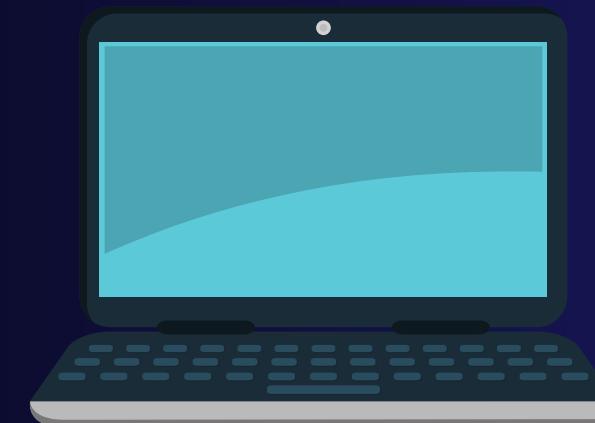
Buy a new machine to run Linux?





**No worries
We have
Virtualization**

Windows



Hardware

Virtualization

Windows 



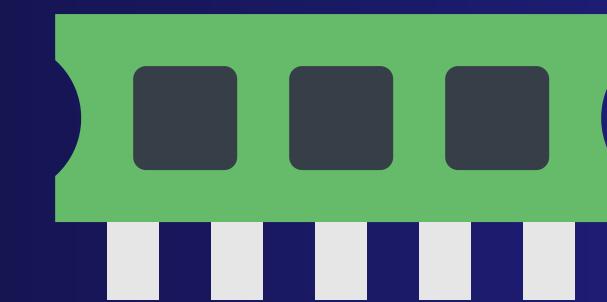
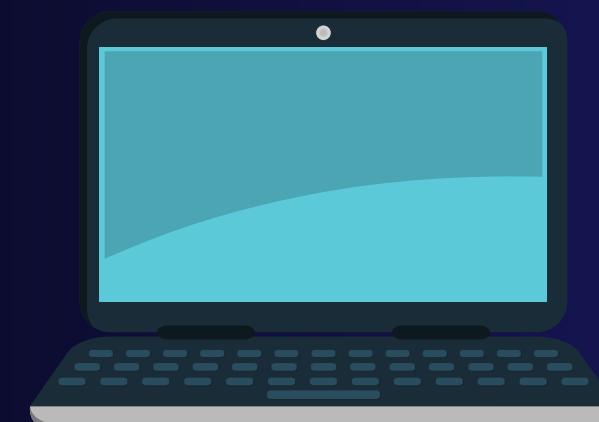
Hardware

Linux OS



Virtualization

Windows



Hardware

Linux OS



Virtualization

Windows



Hardware

Windows

Virtualization

Linux



Hardware

Windows

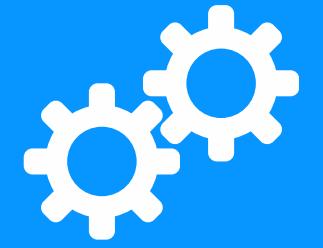
Virtualization

Mac OS

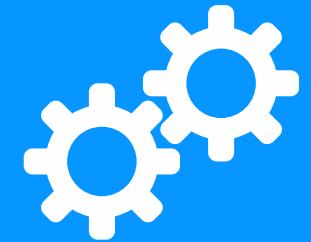


Hardware

**But How to setup the
Virtualization?**



Hypervisor

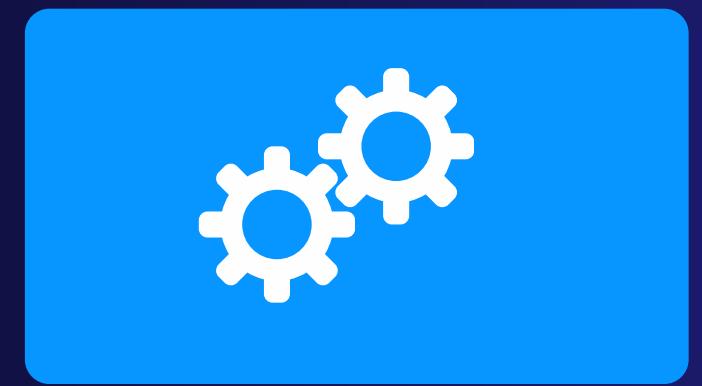


Hypervisor

It is software that creates and runs virtual machines (VMs).



HOST OS



Hypervisor





HOST OS



Hypervisor



How Hypervisor works?

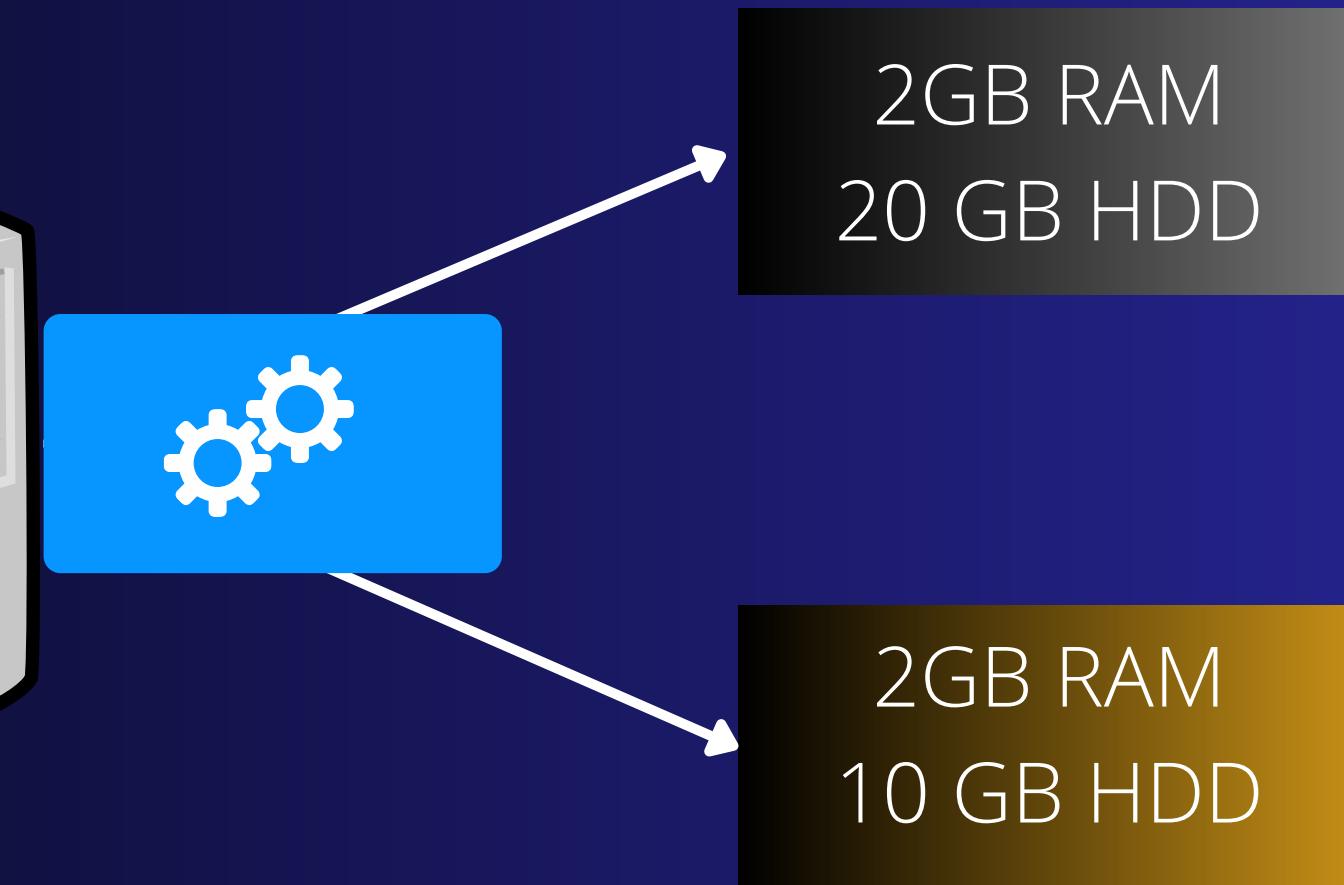
- Virtual box share hardware resources from Host OS
- Separate set of virtual CPU, RAM, storage etc
- VMs are fully isolated (independent of hosted OS)



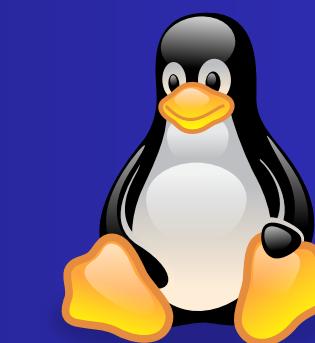
Hypervisor



8GB RAM
100GB HDD



VM1

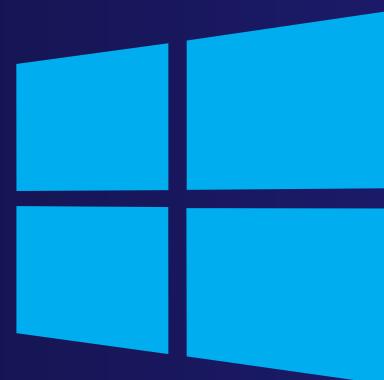


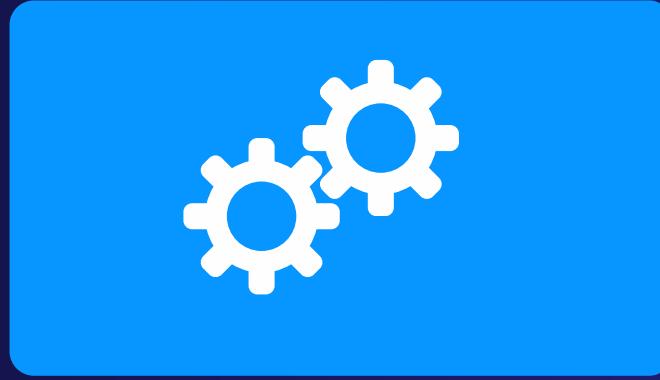
VM2



Benefits of VMs

- We don't need new resources to use different OS
- No risk of any issues with your primary OS
- Testing any app on different OS

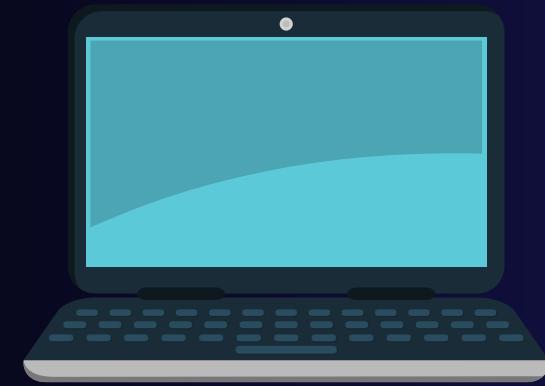




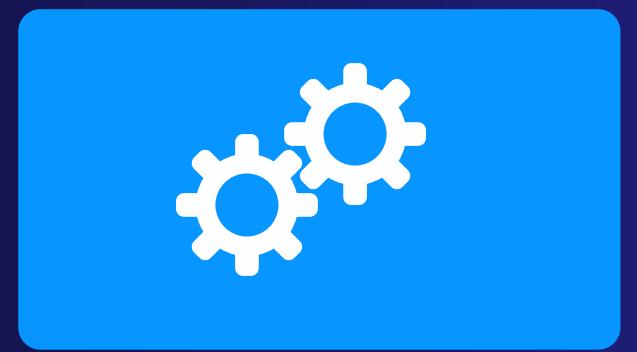
Types of Hypervisor

Type1(Bare Metal)

Type2 (hosted)



HOST OS

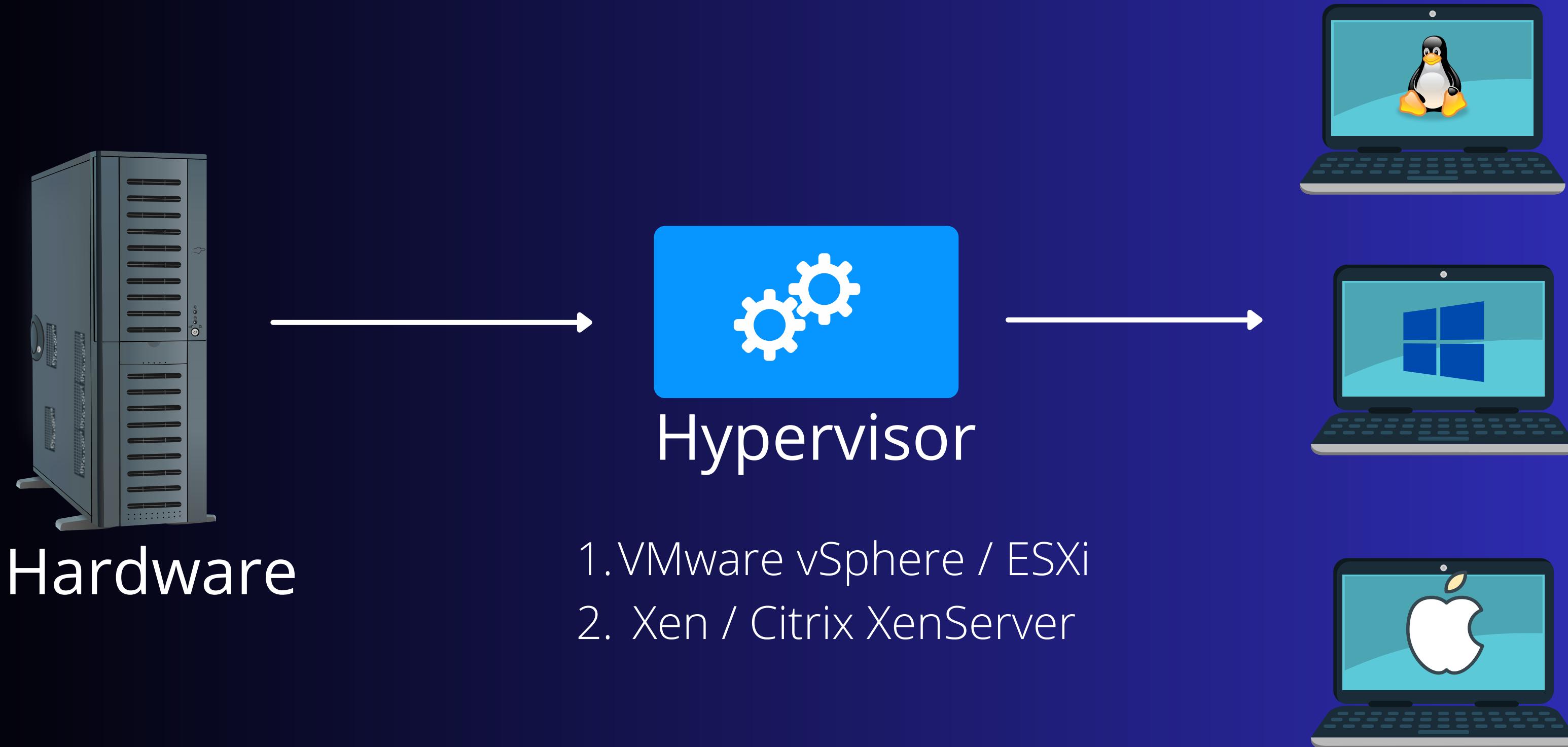


Hypervisor



Type 2 (Hosted)

Type 1 (Bare-Metal)



Type 1 (Bare-Metal)

Used by Cloud Providers and
Enterprise Servers.

Why do companies use virtualization?



Virtualization Use Case

- Cheap
- Reduces
 - workload
 - Space
 - Energy
- Easy backup using snapshot
- Easy recovery

*Thank
you!*

Please Like & SUBSCRIBE

Linux VirtualBox Setup On Windows



ubuntu®

Linux CentOS