# What is Virtualization? | Hypervisor Types | Virtual Machines [HINDI]

* In a laptop, the basic components are Hardware(RAM, CPU, Disk, SDD), OS(like windows or linux), Applications that we install and run
* Hypervisor is a software that creates ad runs virtual machine(VMs)
* Example – oracle VM Virtual Box
* A hypervisor shares the hardware resources from the host machine itself, it doesn’t create a virtual memory, so all the vm’s we use, is using ram and space from your host setup
* The benefits of vms are –

1. We don’t need additional resources to use a different os
2. No risk of any issues with your primary os

* There are 2 types of hypervisors

1. Type 1( Bare Metal) - this is setup directly on the hardware, not on the host os. Eg – Vmware vSphere / ESXi, Xen, Citrix XenServer, AWS
2. Type 2 (Hosted) – like the oracle Virtual box, where we already have an os, like in our case it is windows, we download the hypervisor and use it. Its called hosted, because it is hosted on the host os.

* Virtualization use case

1. Cheap
2. Reduces workload, space, energy
3. Easy backup
4. Easy recovery