devices:

Hardware support for virtualization: Modern operating systems and processors permit multiple process to sum simultaneously. If there is no process to sum simultaneously. If there is no processes, processes, will access the hardware directly a cause a system crash. Therefore, all processors have attecest two modes, user mode a superwiston mode, to ensure controlled access of cruthcal hardware. Inst. sunning in superwison mode are called privileged inst. Other instructions are imprivileged inst.

\*GCPU Vintualization:

A VM is a duplicate of an existing compsystem in which a majority of the VM first. are executed on the host processor in native made. Thus, imprivileged instructions of VMe run directly on the host machine for higher efficiency.

· Privileged inst. execute in a privileged mode and will be tropped of executed outside this mode. Control-sensitive sust.

sesource used. Behaviour-sentitive ind have deff. behaviours depending on the configuration of nessures, including the load & stone operations over the viritual memory.

A CPU architecture is violualizable of it supports the ability to quen the VM's privileged a unpointleged inst. In the CPU uses mode while the VMM sours on supervisors made. When the pointleged inst. of a VM are executed, they are trapped in VMM. In this case, the VMM act as a unified mediator for hardware access from diff. VMz to gurantee the correctness of stability of the whole system.

