

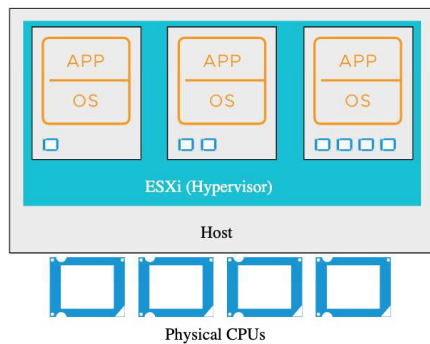
Virtualized Host Resources

The hypervisor allows VMs to share the resources of the host.

It manages the allocation and sharing of virtual resources among VMs:

- CPU
- Memory
- Networking
- Disks
- GPUs

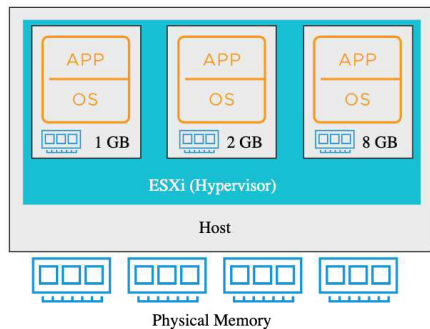
Virtual CPU



The ESXi host manages how much compute access is available for each VM in the following ways:

- Finds available CPU resources when the guest OS requests CPU for an application
- Manages simultaneous requests from multiple VMs
- Schedules VMs to take turns (share) using the CPU when the demand exceeds the available CPU on the host

Virtual Memory



The sum of configured memory sizes of all VMs might exceed the amount of available physical memory on the host.

- The memory resource settings for a VM determine how much of the host's memory is allocated to the VM.
- The virtual memory size determines how much memory is available to applications that run in the VM.
- VMs do not always use 100% of the allocated memory.