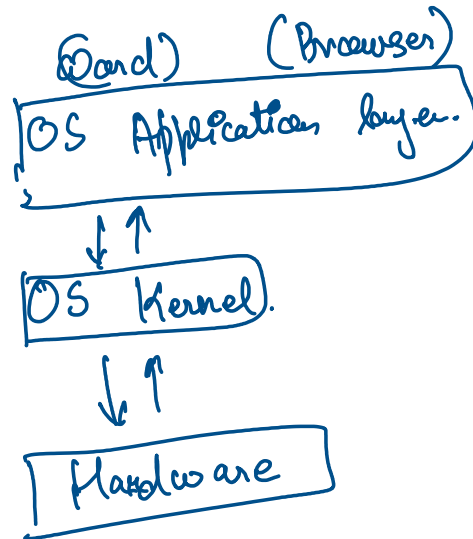# Virtual machine vs docker

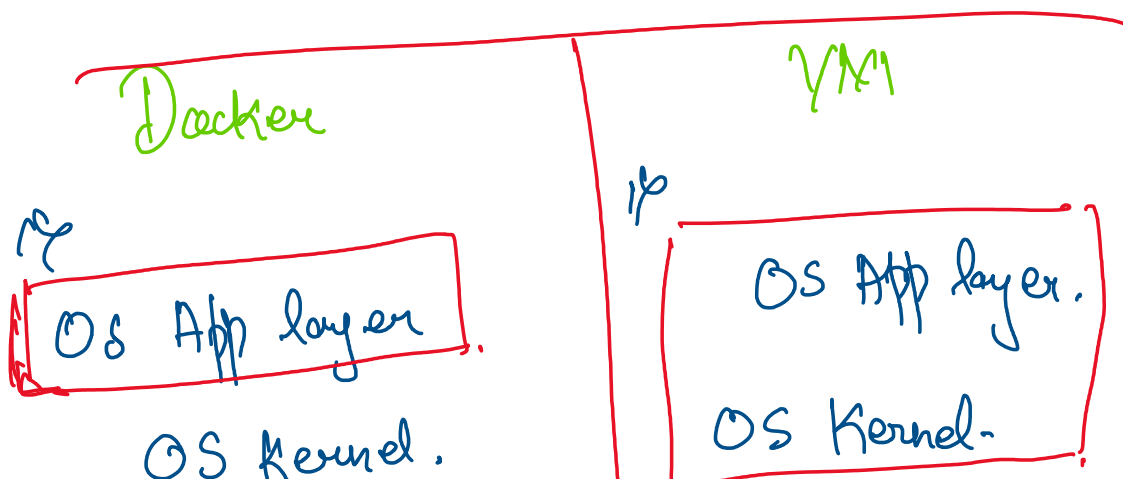Tuesday, January 23, 2024   3:54 PM

* How an OS is made up.
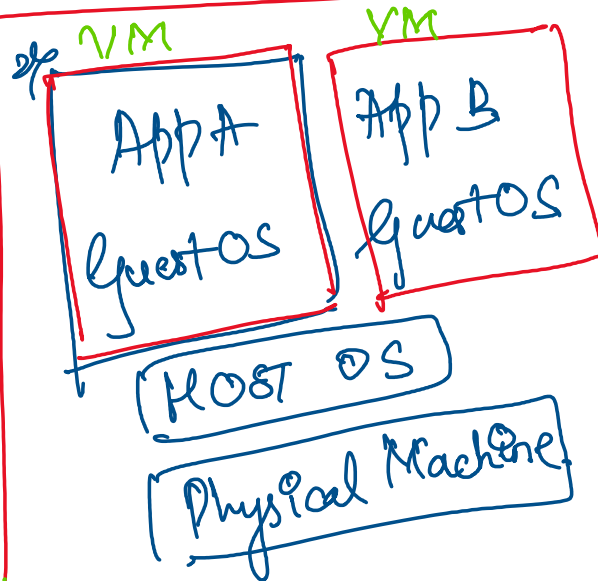
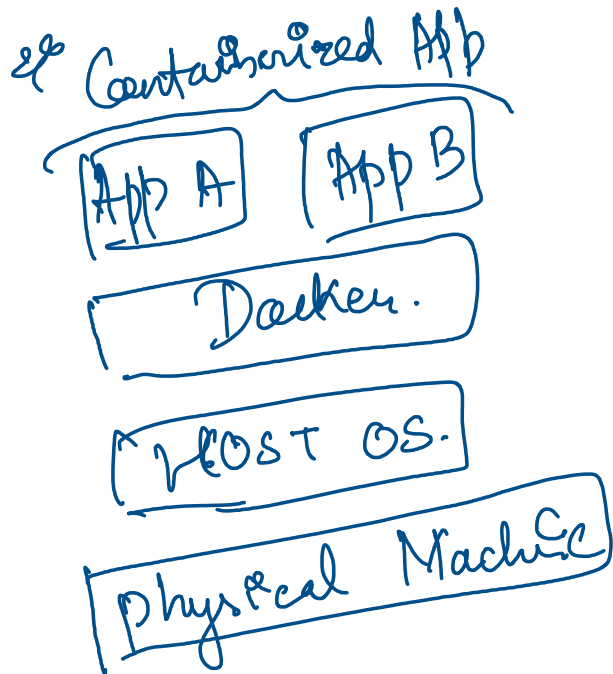(Word)   (Browser)

| OS Application layer. |

↓ ↑

| OS Kernel. |

↓ ↑

| Hardware |

(Kernel interacts with the
hardware & software container)

(So what parts of the OS do they
virtualize?.)

Docker   **VM**

| OS App layer |
OS Kernel.

| OS App layer.
OS Kernel. |

Hardware

Hardware

1) Containerized App

| App A | App B |

Docker.

HOST OS.

Physical Machine

VM   VM

1)

| App A Guest OS | App B Guest OS |

HOST OS

Physical Machine

3) Docker Images, couple of MB

4) Container take Seconds to start

5) Compatible only with Linux distros.

3) VM Images, couple of GB

4) VMs take minutes to start

5) VM is compatible with all OS.

For Comp ability

(Docker Desktop → Allows you to run
Linux Containers on Windows
or MACS.

by using Hypervisor layer with
lightweight Linux distro)