**VIRTUAL MACHINES (VM)**

* Hardware virtualization.
* Hypervisor is responsible for creating virtualized instances (RAM, STORAGE, NETWORK CARDS).
* One server acting as different machines (machines are relatively independent of each other).
* Isolation of machines.
* Infinite flexibility with hardware.

**CONTAINER**

* Operating system level virtualization
* On top of the hardware there is a kernel, on top of the kernel, we have operating systems, on top of OS we would have the containers.
* Dealing with process isolation.
* Each container only needs the libraries for running the application.
* Has namespace and cgroup which limits and monitors our containers.
* Has infinite portability.

Note: Container is defined in a single file known **as docker** file.

A person standing in front of a screen with text

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