Agenda

- What is a Container
- Docker Containers concepts and components
- Getting started with Docker
- Docker Basic Command Lines

What are Containers
A Definition - System Isolation

- A *Container* is simply an Operating System-level Virtualisation based on process **isolation** on the host machine.

- The *Isolation* leverages kernel **namespaces** (separate processes name space) and **CGroups** (separate CPU, Memory, I/O, Quotas) system isolation features in Linux operating systems.

- The kernel allows the existence of multiple isolated userspace instances.

- Unlike *Virtual Machines, Containers:*

    - Share the same Host Kernel

    - Has packaging and a distribution methods.

#init6