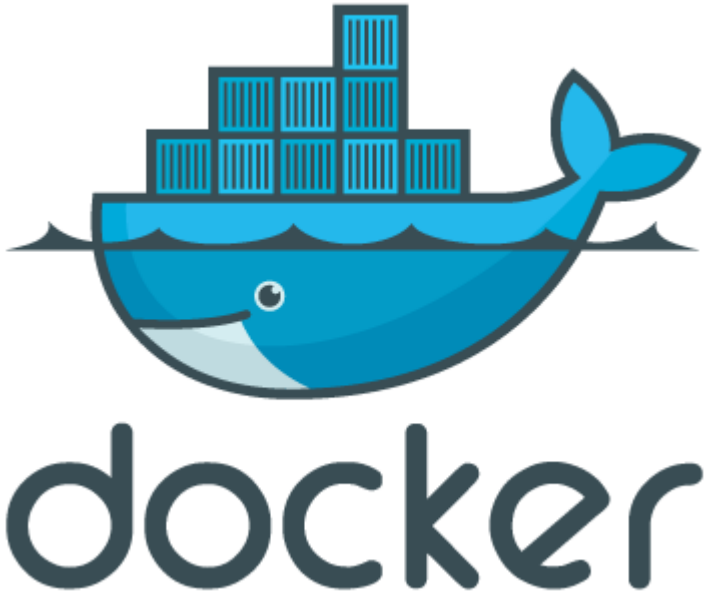
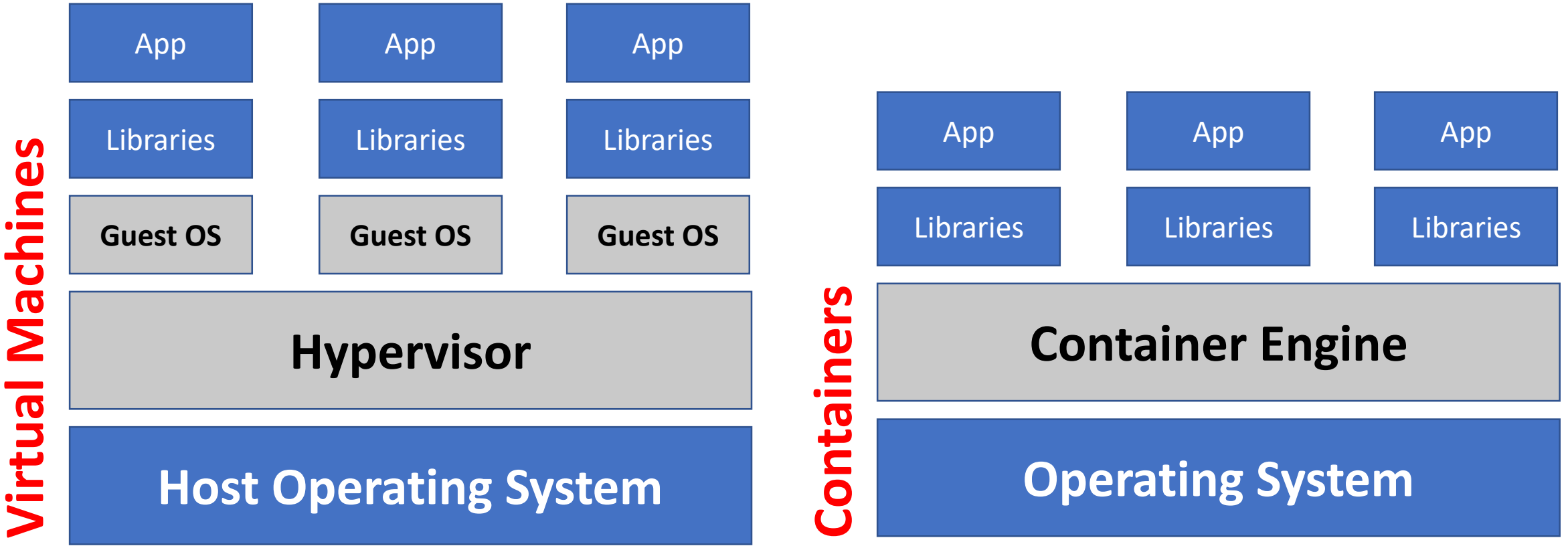
Agenda



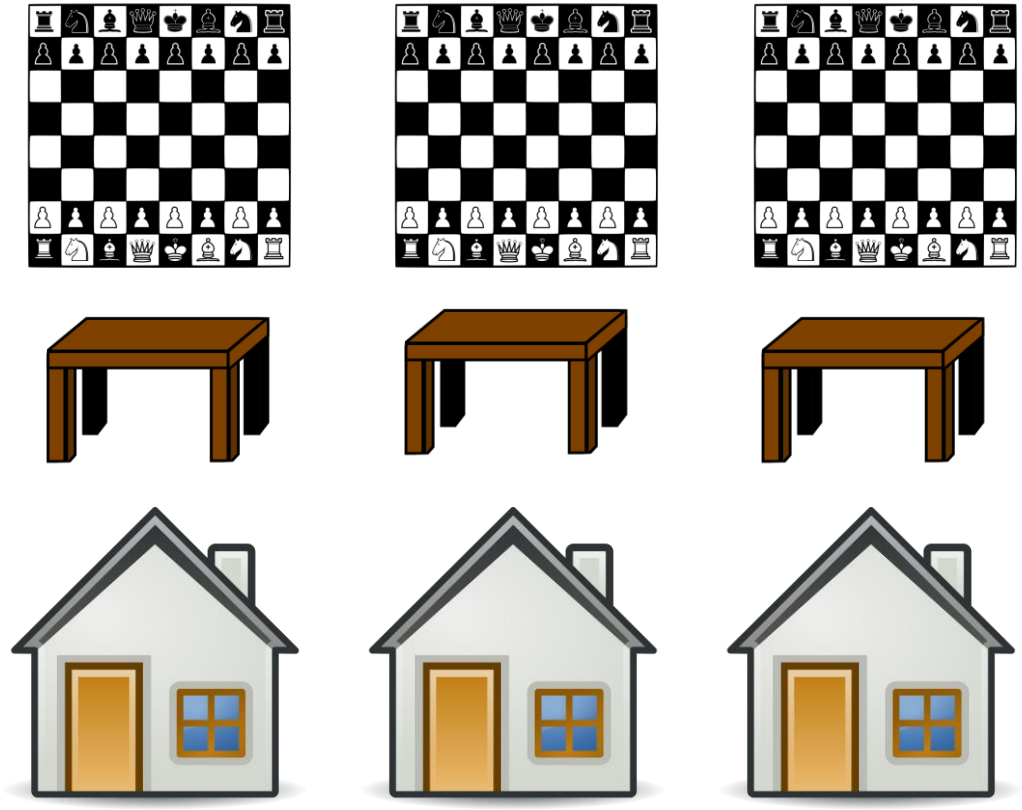
- Containers
- Docker
- Working with Docker containers
- Data in Docker containers
- Building your own Docker image
- Kubernetes, Swarm (future presentation)

Containers

- Lightweight alternative to Virtual Machines
- Smaller, less expensive, faster to start up and self contained



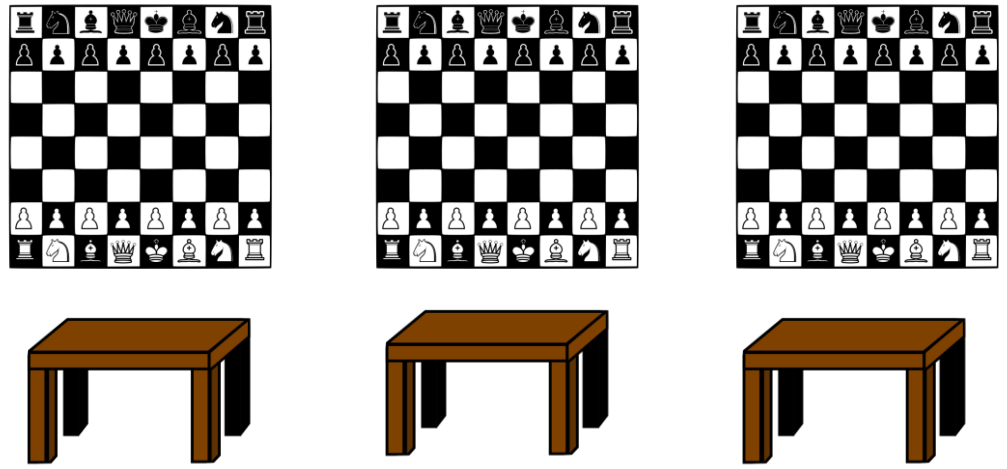
Virtual Machines



Hypervisor

Host Operating System

Containers



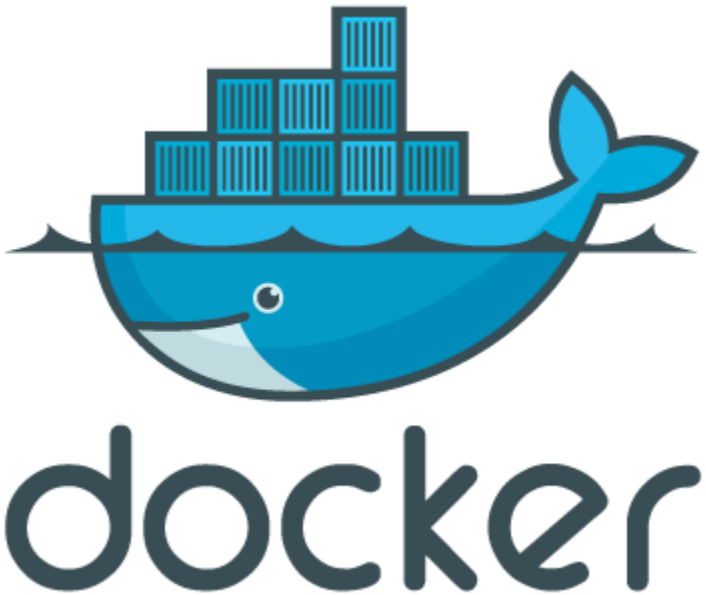
Container Engine

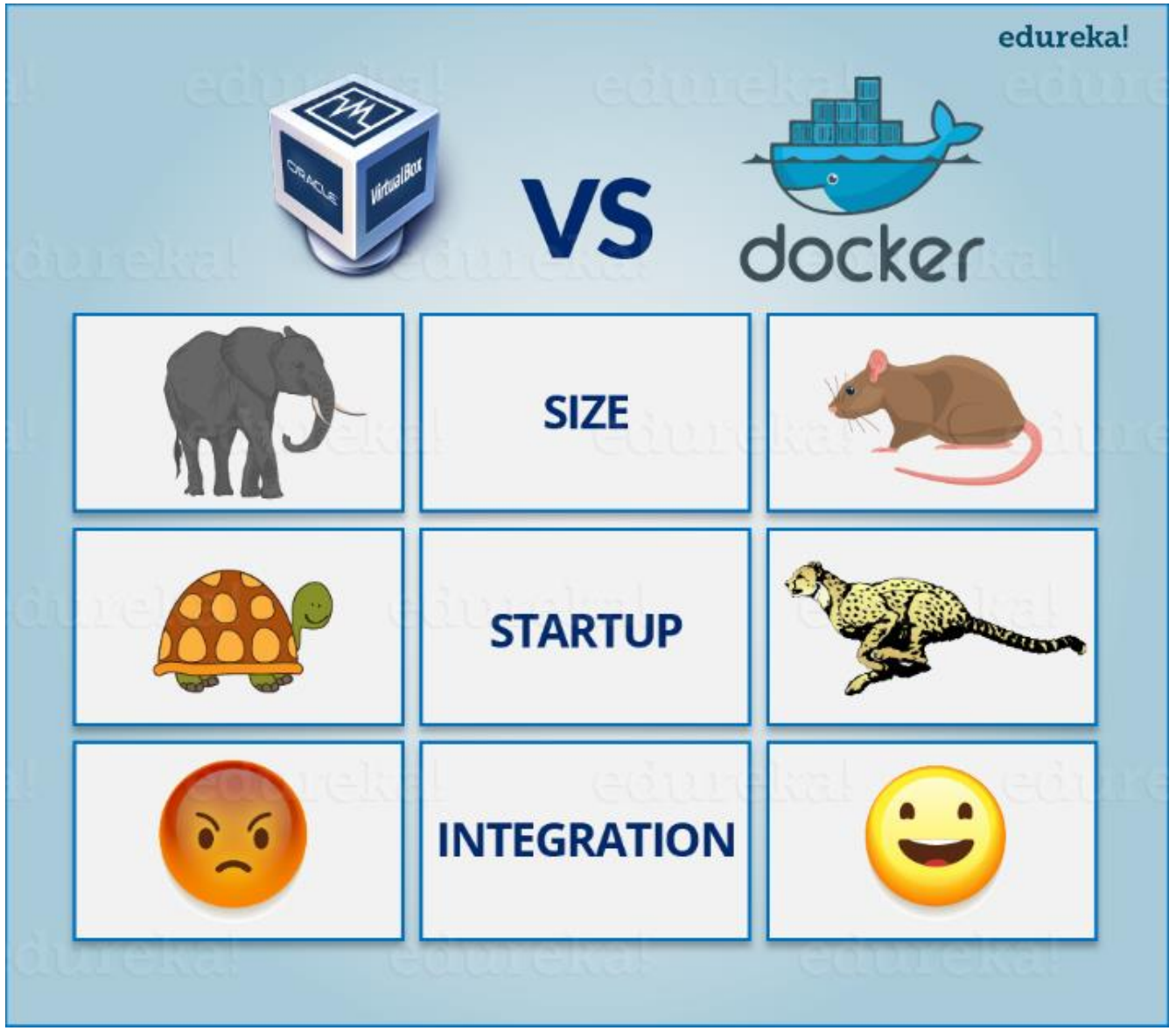
Operating System

Docker

- Leading open-source containerization platform

Docker containers wrap up a piece of software in a complete filesystem that contains everything it needs to run: code, runtime, system tools, system libraries - anything you can install on a server. This guarantees that it will always run the same, regardless of the environment it is running in…

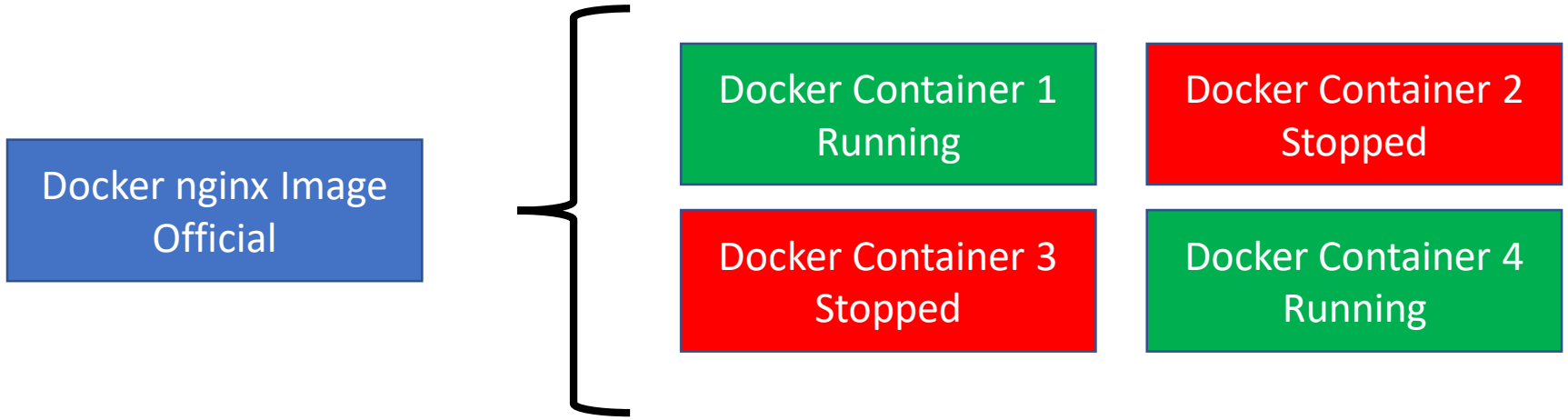



edureka!
VS
docker
SIZE
STARTUP
INTEGRATION

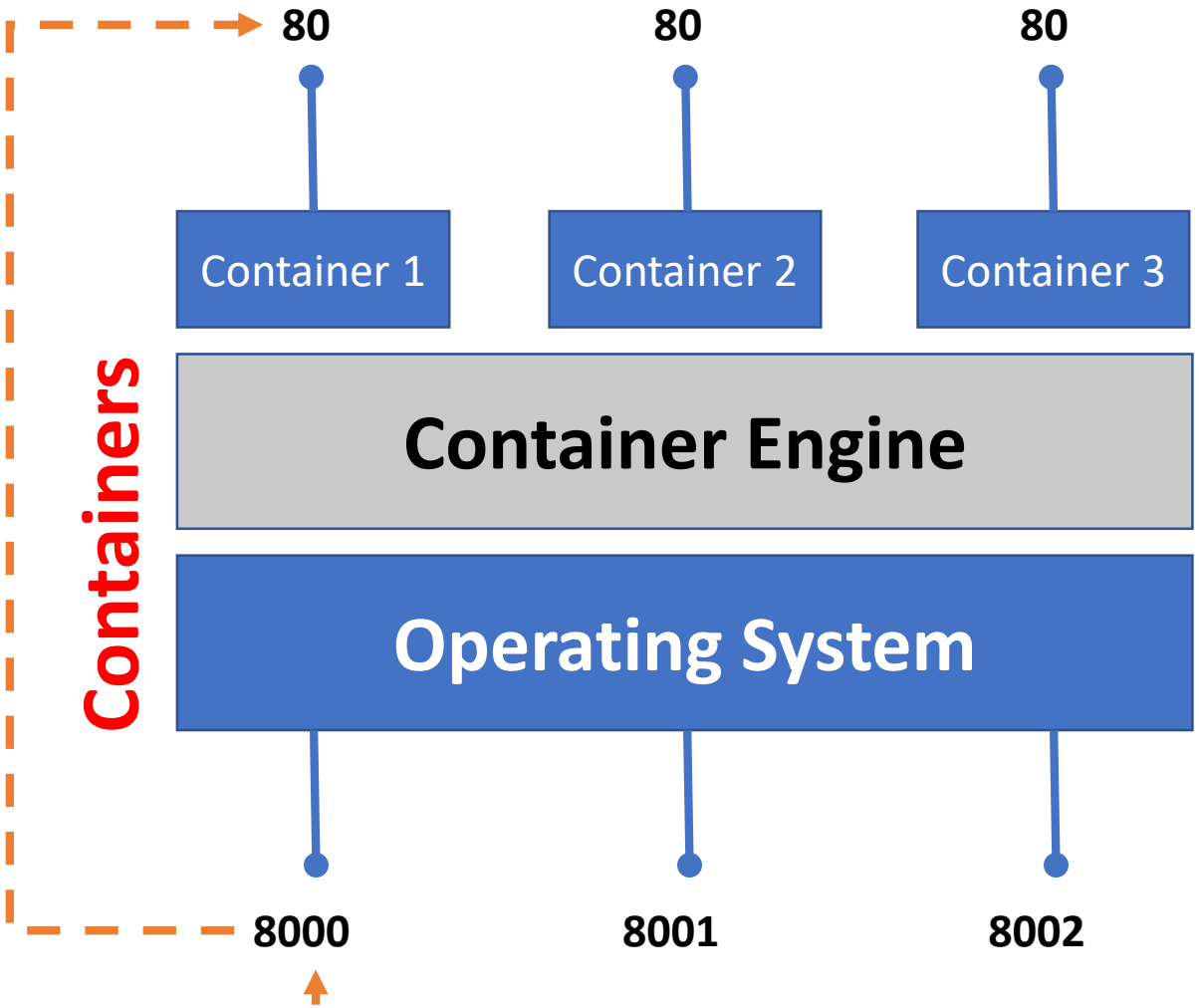
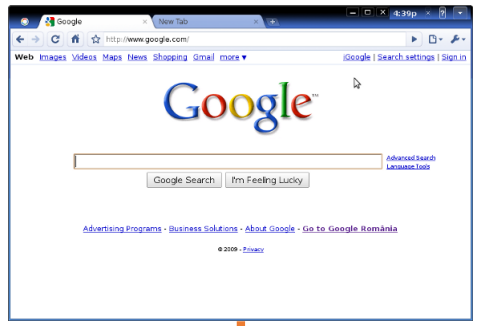
Docker Terminology (Images Vs Containers)

- Docker Image (docker images)
  - Essentially a snapshot of a container

- Docker Container (docker ps, docker ps –a)
  - Instance of an image



Port Mapping in Docker



http://host:8000