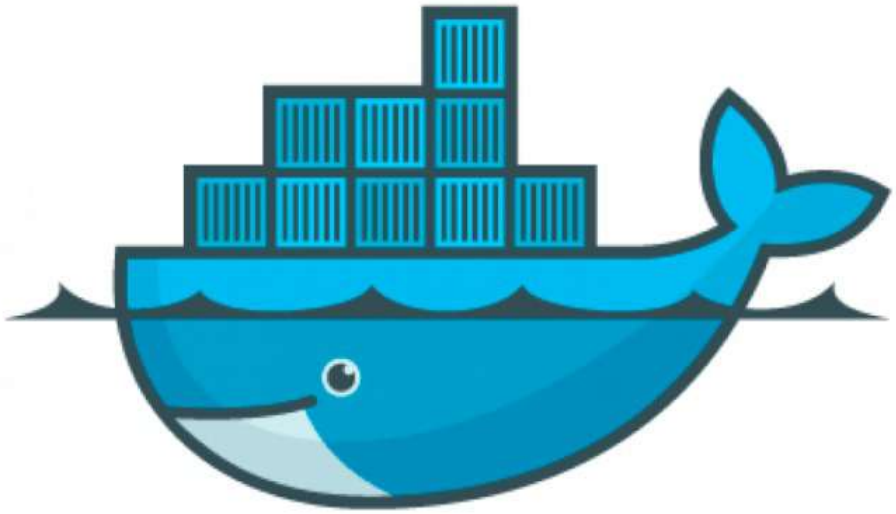
SHORT NOTES



docker

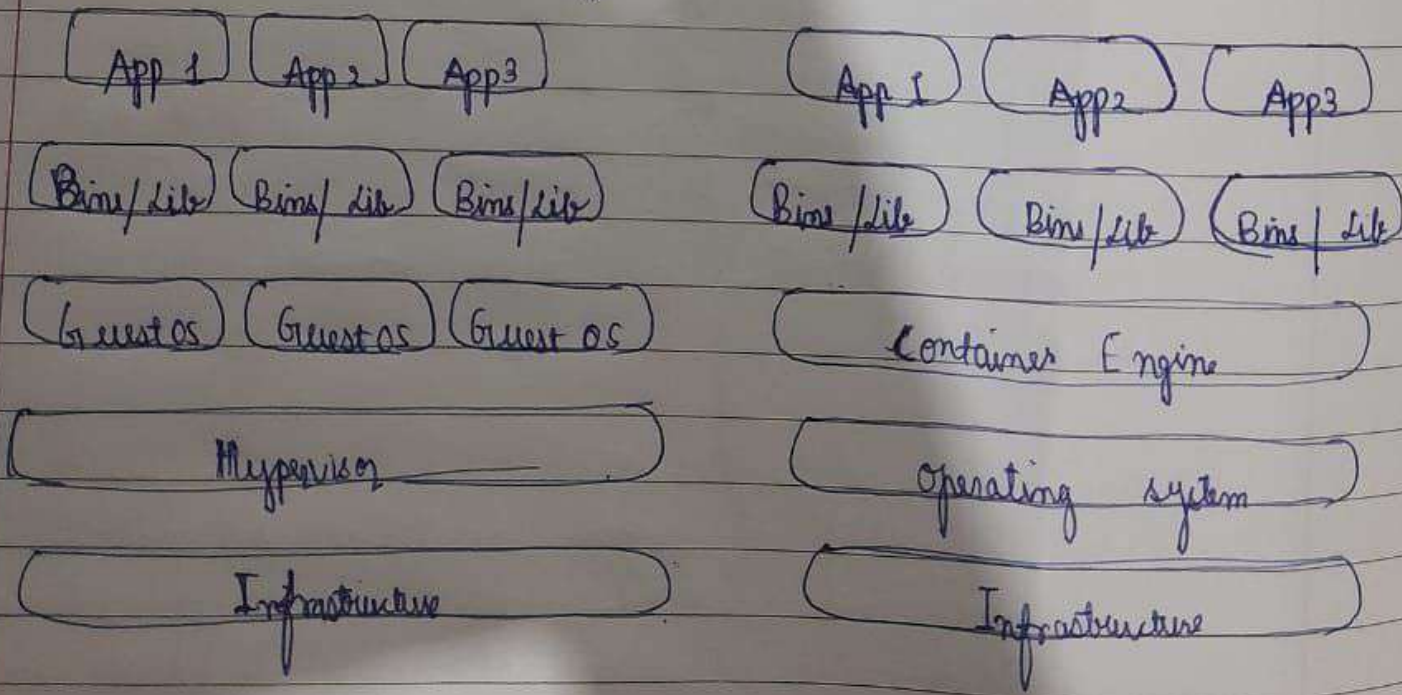
-PRATYUSH BIROLE

DOCKER - DevOps

- **Containerization (DevOPS):-** Containerization entails placing a software component and its environment, dependencies, and configuration, into an isolated unit called container. This makes it possible to deploy an application consistently on any computing environment whether on premises or cloud based.

- **Virtual Machine (VM):-** VM is a digital version of a physical computer. VM software can run programs and operating systems, store data, connect to networks, etc
  (VM ware - first virtual machine)

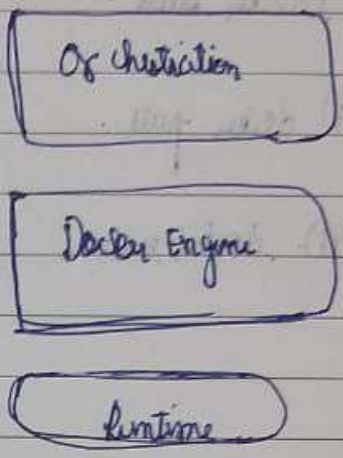
- **Containerization VS Virtualization.**



Page No.
Date

- **Docker:-** Docker is a software platform that allows you to build, test, and deploy applications quickly. Docker packages software into standardized units called containers that have everything the software need to run including libraries, system tools, code and run time.

- **Docker Runtime:-**



(i) Runtime :-

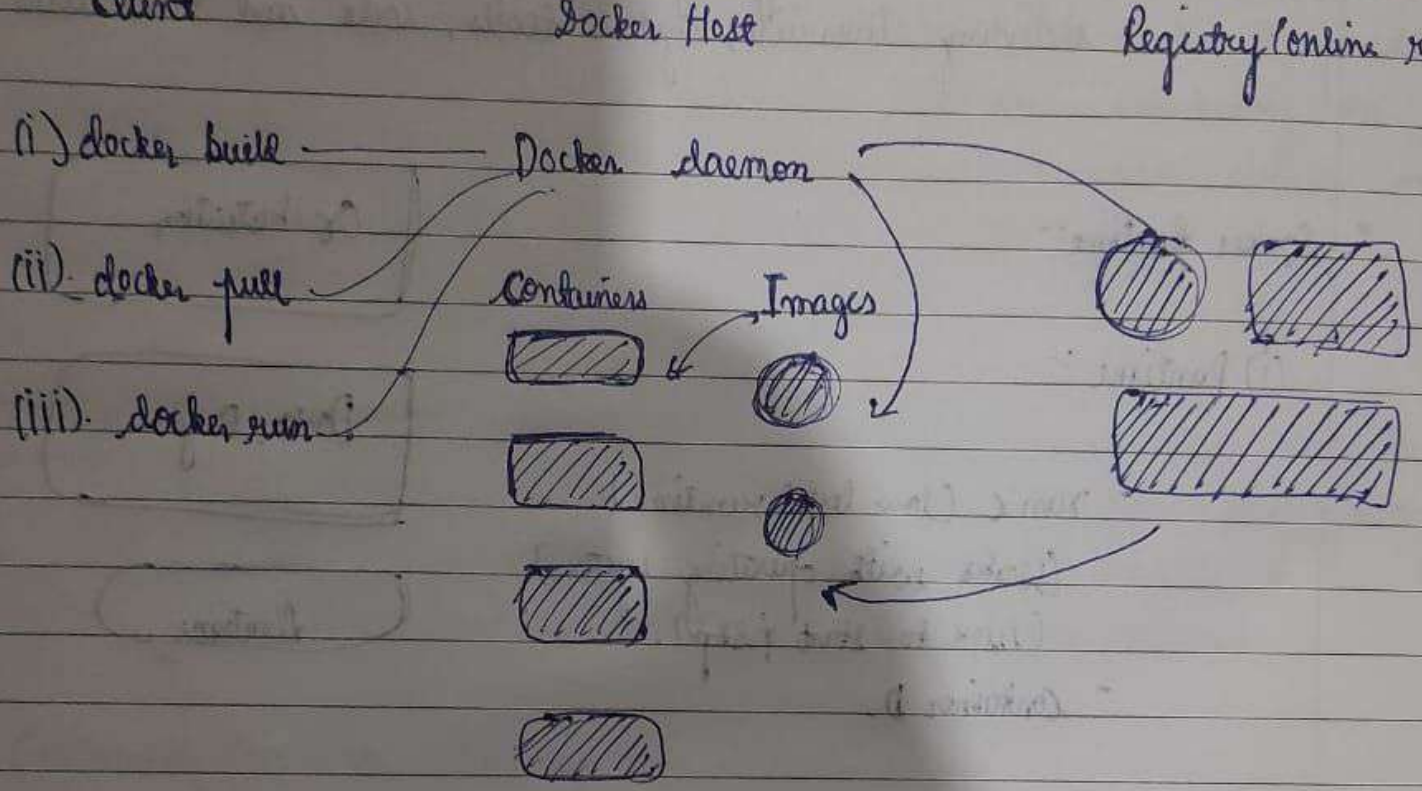
- runc (low level runtime)
  (Works with operating systems)
  (used to start & stop).
- Containerd.

(ii) Docker Engine ; Docker Daemon.

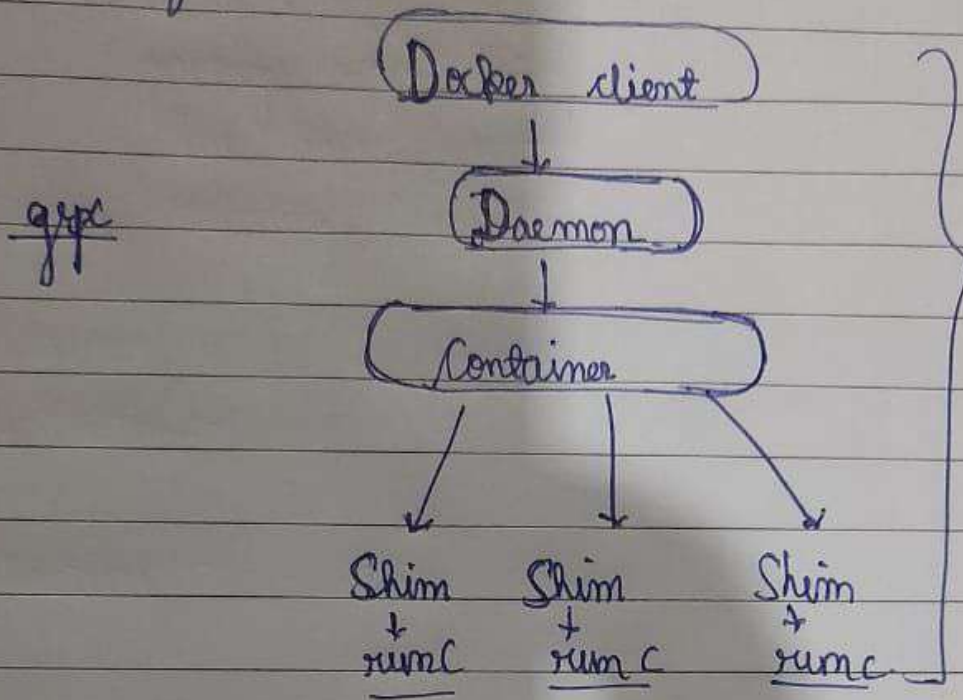
Docker ⟶ Image ⟶ Container

- DEV → App, Docker file, Image, Container
- OPS → Download image, Running image

docker run hello-world
image name



- Architecture of docker.



grpc