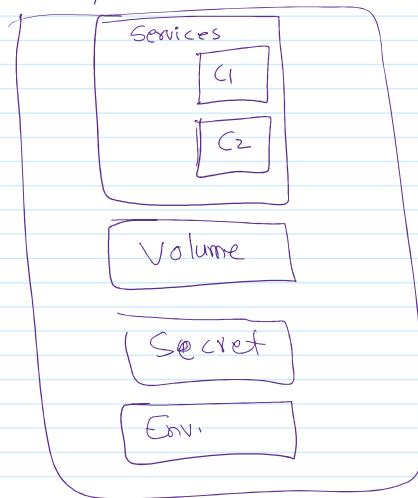


56.16Jun. Docker Swarm

Friday, June 16, 2023 7:12 PM

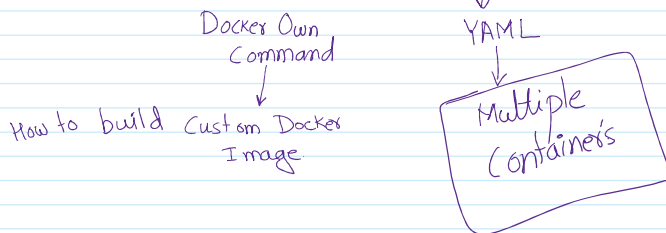
Multiple Container

- Microservice
- Multi Tier based Application.
- Docker Compose. → YAML (Indentation based file)



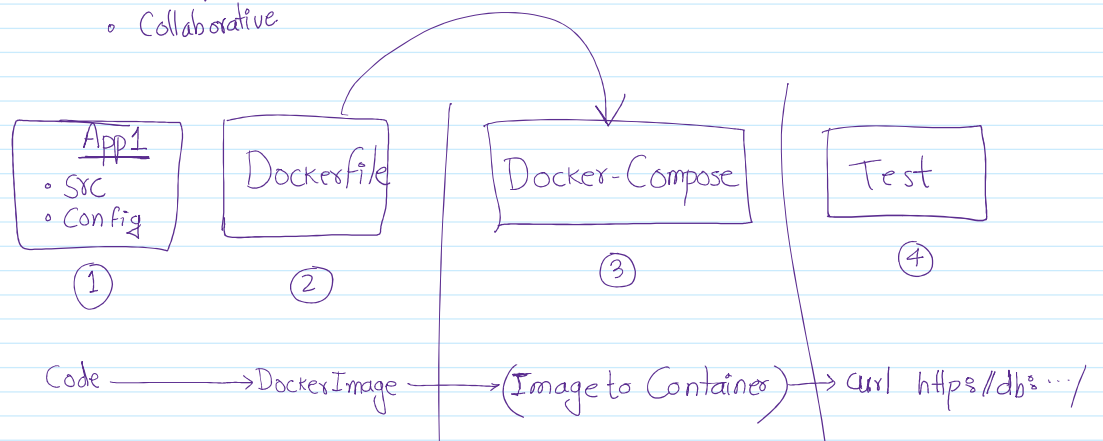
Dockerfile vs D-Compose

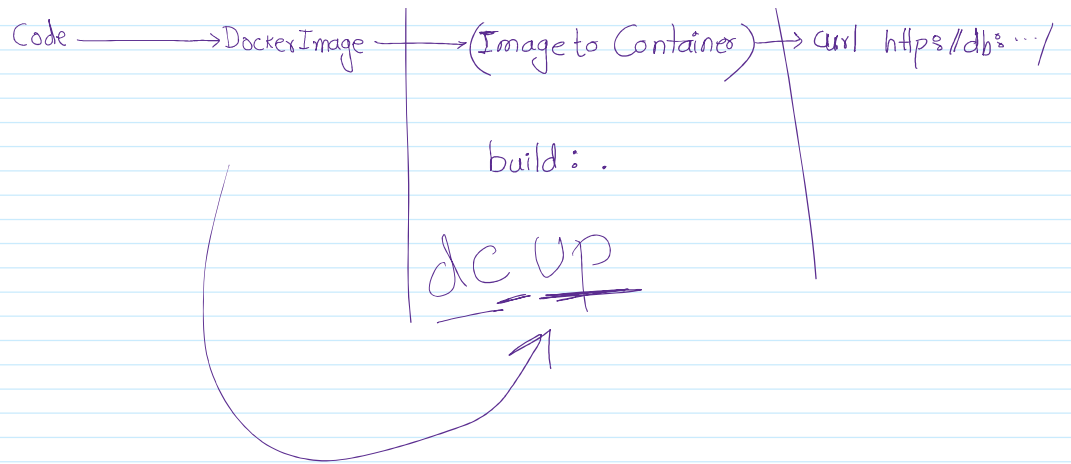
vs Swarm.



docker build
docker **run** → (I) → (C)
docker exec.

- Gradually.
- Enterprise
- Collaborative





Docker Swarm:-
Mode • active / inactive.

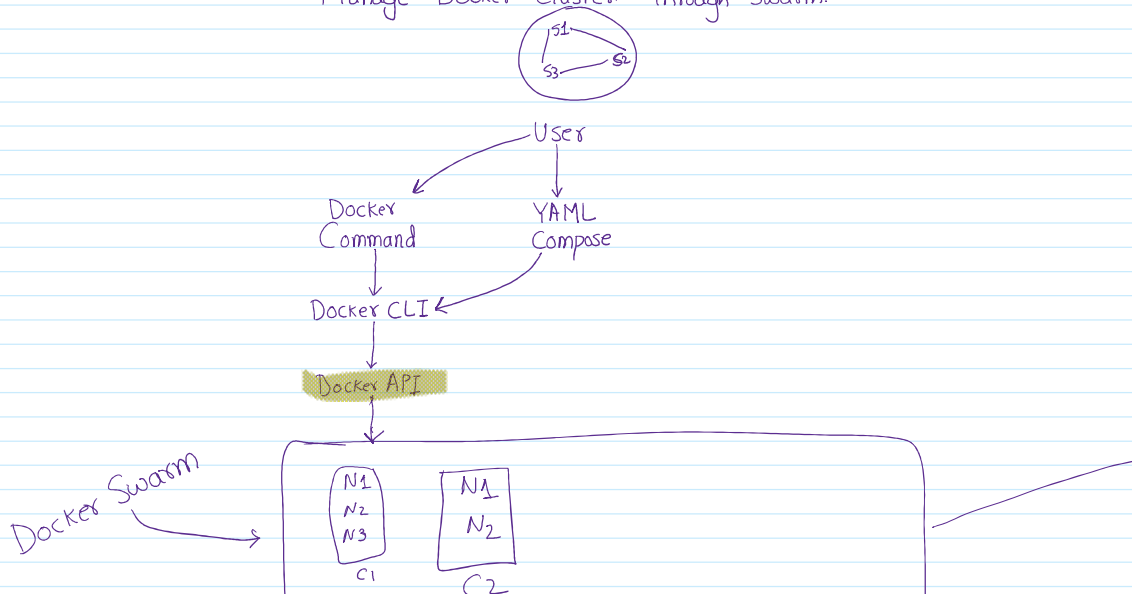
• Container orchestration tool

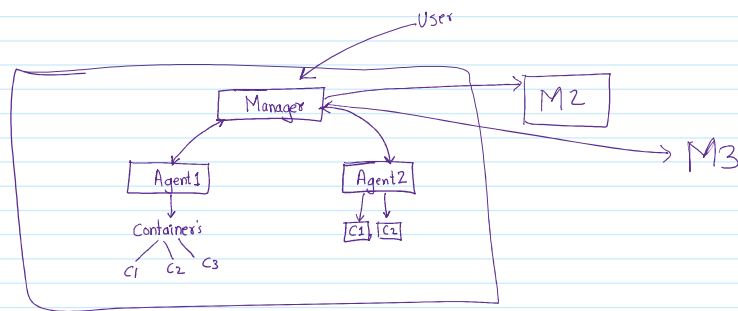
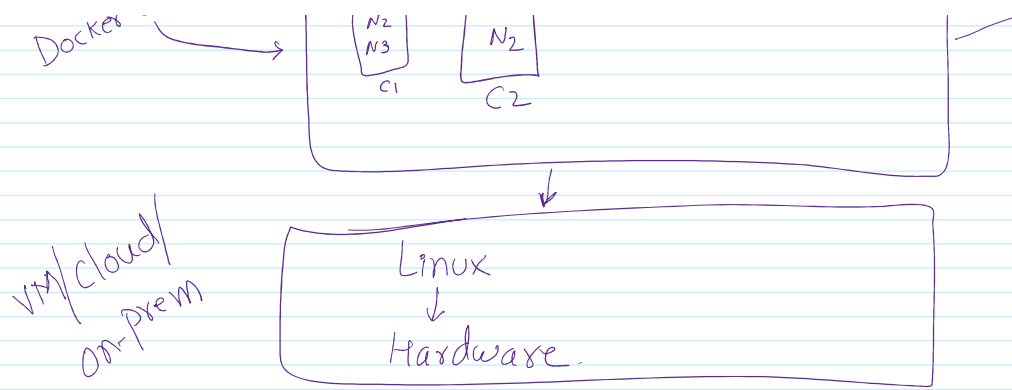
Features

- 1] Scaling.
- 2] Multi host networking
- 3] Service Discovery
- 4] Decentralized design
- 5] Load Balancer
- 6] Secure by default (Token)
- 7] Rolling updates
- 8] All types instruction
 - Command
 - Dockerfile
 - Docker-Compose.

• Embedded Feature of docker, **Swarmkit**

• Manage Docker Cluster through Swarm.





- 1] At least 2 Machines
- 2] Same network (VPC should be same)
- 3] Sequence of IP address should be :
- 4] master \$ initialize. Swarm → Token, Master IP, 2377
- 5] worker1 \$ Join Swarm ←
- 6] check nodes (Master, Worker's)

```
$ docker service create \
  --name=viz \
  --publish=8080:8080/tcp \
  --constraint=node.role==manager \
  --mount=type=bind,src=/var/run/docker.sock,dst=/var/run/docker.sock \
  dockersamples/visualizer
```

```
master# docker swarm init --advertise-addr 192.168.0.23
```

```
worker1# docker swarm join --token SWMTKN-1-1483ufrinaxi2wwtq5vbpinnokafectlqqul4zxlg219pull-7slsavk4u8gvy9wod170dg3g9 192.168.0.23:2377
```

```
docker swarm join --token SWMTKN-1-... MasterIP:2377
```

```
master $ docker node ls
```

```
master $ docker info
```

