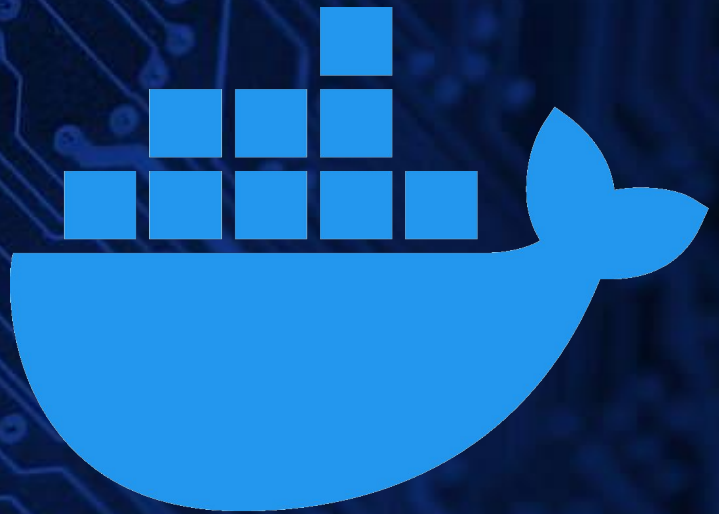
Docker : Docker MasterClass for DevOps

Build and Deploy Stack Using Docker Swarm from Scratch



Docker : Service Containers

- Build Own Image:

- Sample_WebApp Project

- Build Image from Dockerfile
  docker build --tag=friendly_hello .

- Push image on Docker Hub docker tag docker push
  docker tag <image> <username/repository:tag>
  docker push <username/repository:tag>

Docker : Service Containers

- Explore the docker-compose.yml file.
- Pull the Image from Repository.
- Run **5 instances** of that image as a service called web
- Limiting each one to use, at most, **10% of a single core** of CPU time and **50MB** of RAM.
- Immediately restart containers if one fails.

Docker : Service Containers

- Map port **4000** on the host to web port **80**.
- Instruct web's containers to share port **80** via a load-balanced network called webnet.
- Define the webnet network with the default settings, which is a load balanced overlay network.

Docker : Service Containers

- Deploy the Service in Docker Swarm
  docker stack deploy -c docker-compose.yml webapp_start

- Verify Service
  docker service ls

- List Stack name
  docker stack services webapp_start

- A single container running in this Service is called Task. So Single Service can execute multiple Tasks.

Thank You...

Don’t be the Same! Be Better!!!