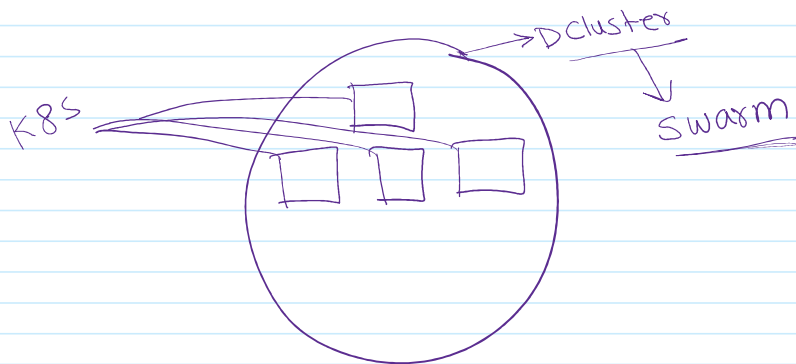# 36.15May.Orchestration

15 May 2023   07:18 PM

1. Container Orchestration
2. Docker Swarm vs Kubernetes
3. Kubernetes Architecture
4. Installation of K8S - Minikube, EKS
5. K8S Object Components
   a. Node
   b. Pod
   c. Deployment
   d. Service
6. Orchestration of Application using
   a. Ad-hoc
   b. YAML file
7. Enterprise Solution
   a. Scaling - Up/Down
   b. Rolling Out/Back

Docker --> Container --> Manage(Orchestration Tools = Swarm, K8S)

Swarm vs K8S
  ➢ Manage Containers --> Orchestration Tool
  ➢ K8S = manage multiple Containers
  ➢ Swarm= does not manage any containers, instead is a cluster manager for docker container.

  ➢ K8S: Support for stateful applications
  ➢ Swarm: Does not support stateful applications(Movie: Ghajini)

Service

Call

Daemon

Docker Swarm Manager

Service discovery

Scheduler

Docker API

Node 1 — Docker daemon — Container

Node 2 — Docker daemon — Container

Node N — Docker daemon — Container