Why Kubernetes?

- A software tool to run Dockerized application in the Cluster of Nodes

- Used to Monitor & efficiently managing the environment of the Enterprise Application

- Also been called as Orchestrational Engine

- It take cares about the Stability of the Application, in order to brings up the functional units automatically.

Use case for understanding in Deep:-

Example case - Swiggy or Flipcat Online Applications.

Microservices applications involved:

1. Search App

2. Pricing App

3. Cart App

4. Order App

5. Payment App

Note: Differs in the number of VMs or Containers involved.

History of K8s?

- It is an open-source container-orchestration system for automating application deployment & management, which was originally designed by Google in 2014.

- Now it is maintained by CNCF [Cloud Native Computing Foundation] .

- Written with GO language.

Knowledge Pre-requisites for K8s

Below are the Key points which we need to be familiar,

- Basics structures of Json/Yaml

- Concepts about API & Rest API

- Content of an Enterprise Application - EAR

- Understanding of Architecture flow.