# KUBERNATES

\* Open source system that helps you deploy, scale & manage containerized applications.

## Control plane
\* Master node
\* manage everything & ensure cluster behave as expected.

i) Controller-Manager
\* like task Manager, make sure & watch app is running smoothly.
   e.g node controller (manage node).

ii) kube-api Server
\* front desk, receive request from user & other components & make sure they are processed correctly.

iii) kube-Scheduler
\* It decide which node is appropriate for running new pod.

iv) etcd
\* store all configured data.

## pod
Smallest deployable unit of kubernates.

## Kubelet

* node manager, manage individual nodes,
* make sure container run in pod. If pod is not work proper it will restart it.

## Kube proxy

* run on each node & manages networking.

## Container runtime
Responsible for running container.

## Cloud Controll Manager

* take care of task needed to make kubernates work smoothly with your cloud services.
* e.g. provisioning storage volume in Aws.