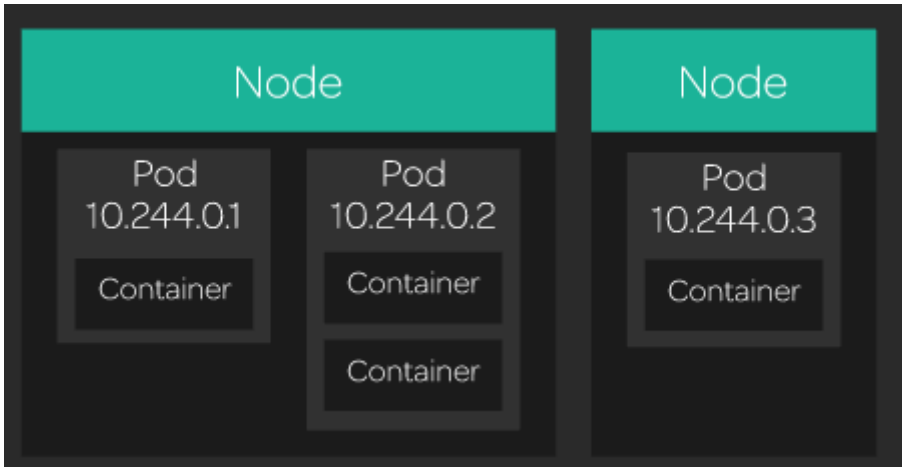
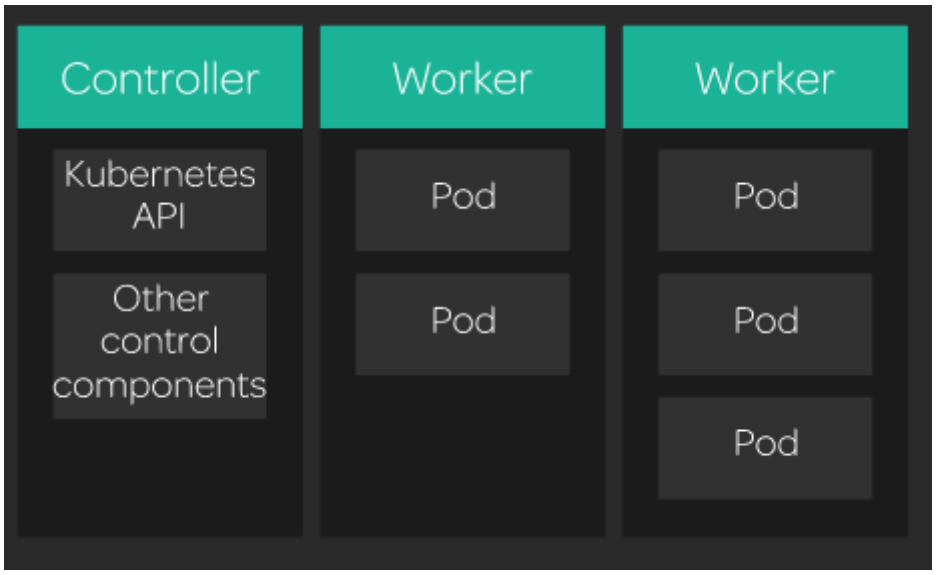
Kubernetes Basic Structure

Pods: Pods are the smallest and most basic building block of the k8s model. A pod consists of one or more containers, storage resources, and a unique IP address in the k8s cluster network.

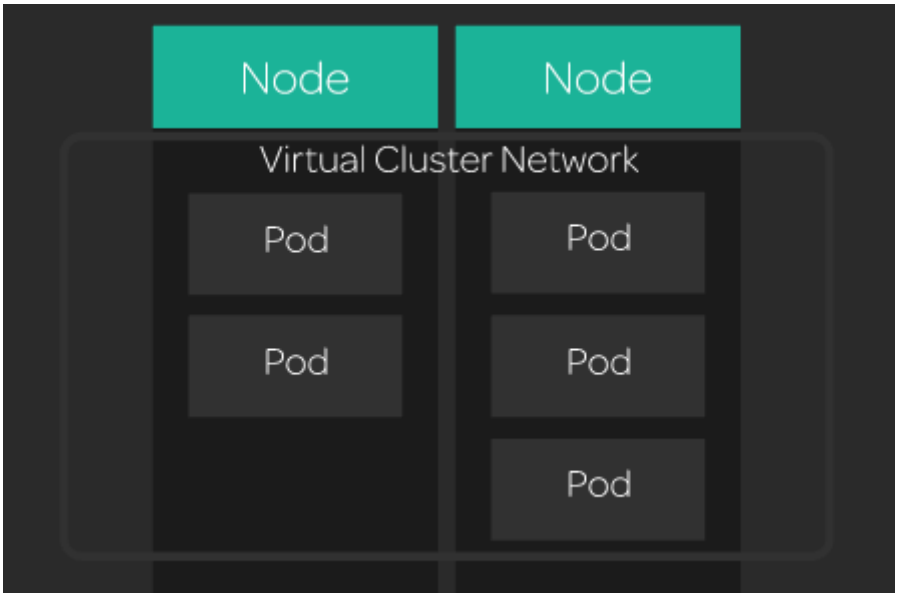
Nodes: k8s runs your workload by placing containers into pods to run on nodes. A node may be a virtual or physical machine, depending on the cluster.



Clusters: k8s implements a clustered architecture. In a typical production environment, you will have multiple servers that are able to run your workloads (containers).These servers which actually run the containers are called nodes.



Networking: The k8s networking model involves creating a virtual network across the whole cluster. That is why all pods has a unique IP address, and can communicate with any other pod in the cluster, even if that other pod is running on a different node.



There are lots of networking plugins that support k8s. I used flannel for whole implementation.