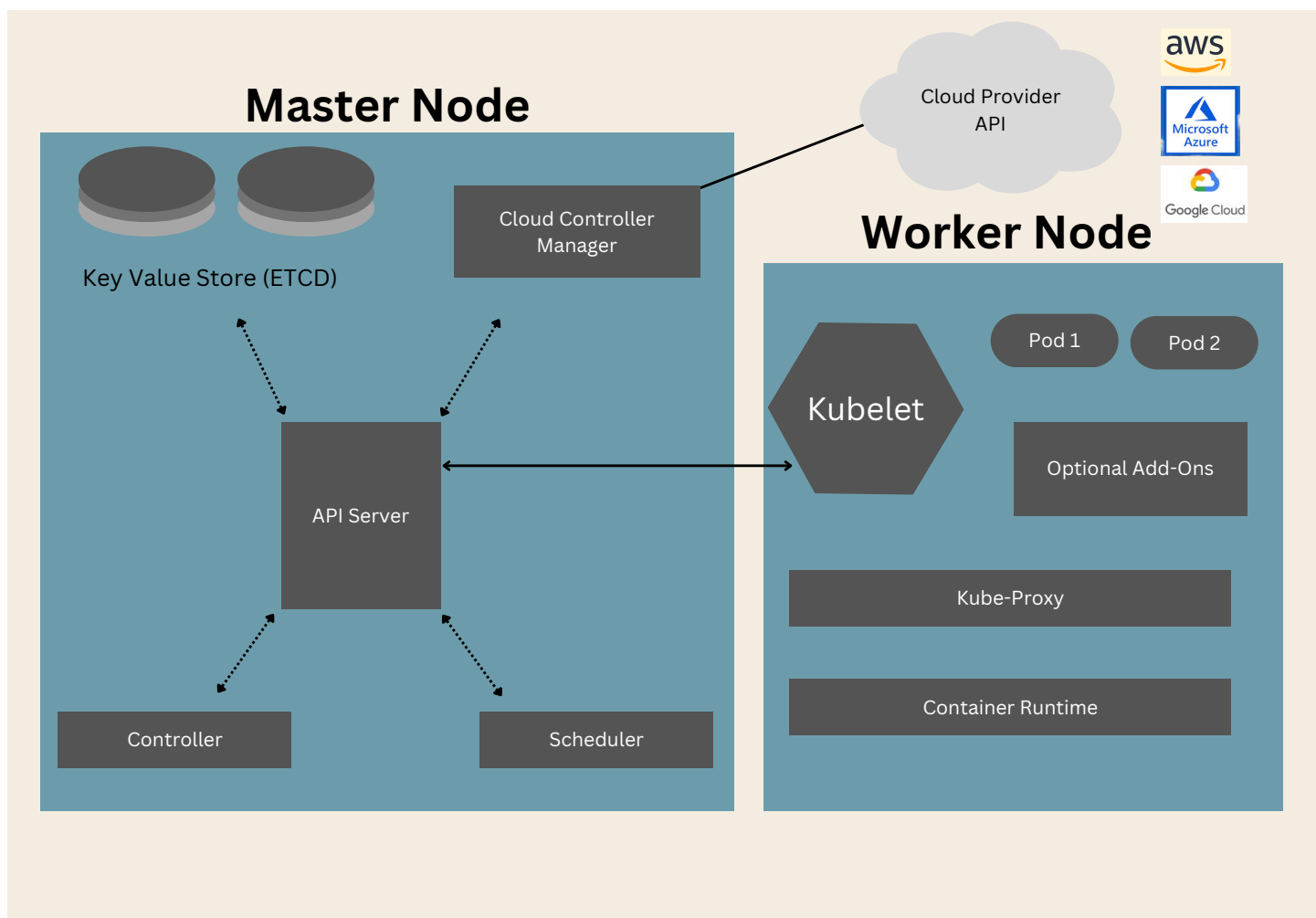# Architecture of Kubernetes

Components of Kubernetes

- ## Master
1. **API Server**: It is present in master and takes request from external world. It is used for tracking the state of all the cluster components and manage interactions between them.
2. **Scheduler:** Scheduler is responsible for scheduling pods in nodes by getting information from API Server.
3. **ETCD**: It will have cluster related information. It is a key-value store which will store all the information about the cluster.
4. **Controller Manager:** It runs in-built controllers, such as node or replication controller.
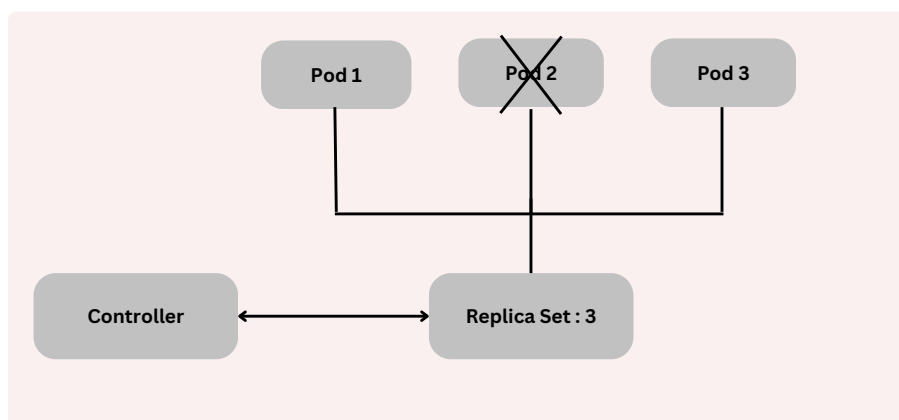
- ## **WORKER**
1. **Kube-proxy:** Provides networking, ip addresses and load balancing capabilities.
2. **Kubelet:** It is responsible for running applications and in case if application or pod is not running, then kubelet informs one of the components about something going wrong.
3. **Container Runtime:** Actually runs the container.