Master Node:

1. Kube-apiserver: It is a central point to communicate. It interacts directly with user. It scale automatically depends on load. It is front end.
2. Etcd: It is a kind of database which stores metadata and status of cluster. It stores in key value pair. State of etcd available on every node.
3. kube-scheduler: When user makes request for creation and management of POD, it going to take action based on request. Example- pod creation and managment
4. control-manager: It manages the node and pod. I make sure that actual stat of cluster matches the desire state, if not the ask the scheduler to create.

On cloud it is available as cloud-controller-manager and non cloud kube-controller-manager

Cluster: Is a group of node which has at least one master node and one worker node. Kubernates always communicate with POD

Worker Node:

1. kubelet: is a agent running on each node. It always in touch with master node with api-server. It works on port 10255(we can change the port). Main role is to ask master node for POD creation
2. container engine( Docer or rocket of container-v any): work with kublet, pulling image, start/stop container, exposing container on port.
3. Kube-proxy: Assign dynamic IP to POD. It runs on each node and make sure that each pod will get its own unique IP address
4. POD: Is a smallest unit which wraps group of or one container that are deployed on same host. Kublet will communicate with POD