kubernates cluster is a set of machines called nodes they are rused to contanionized application,

- -> Basic kubernetes aschitecture exists in two parts.

  The control plane and the nodes in the cluster.
- -> Each node could be either a physical os vistual machine and is its own linux envisonment.
- -> A pod always runs on a Node.
- Pods are just a nothing but having one or more containers. In kenbereretes we actually use pads instead of containers.
- → In keubernetes multiple pads can sun on one Node But A single pod cannot travel multiple nodes
  - 2) kubenetes Control plane
    The control plane is the Center that houses
    kuberretes cluster wichitecture components
    that control the cluster.

## Architecture

the Architecture of kuberenetes includes a master hode and one or more worker nodes.

Processes

- manager server, Sheduler etcd.
- 7 worker nodes includes like kublet

  CAdvisor

  Kube proxy

  Pods.
  - -) pods are the smallest unit on the kuberrides
- pod is nothing but & group of one or more application containers.
- > pod has a unique Ip address
- o containers fit insides the pod that shares shares xesources so pod itself shares memory, cpu disk space etc.
- I master node how is likes it a dictates
  that like what to do, and what not to do

#### kubernetos

Tt is a open-source container orchestration

Platform and it automates the deployments

and scaling, managing the containerized applications

. distribute dans

> In other words, kulternet is a platform for sunning and managing from many container suntimes kulternet is better boz it can manage container sescurces from a single control plane

has to create contrainer in dockers

a) using the sun command.

## Diff bleo reset and overent?

- > git neset does this by moving. the current head of the branch back to the specified commit, thereby changing the commit history.
- -> git sevent does this by creating a new commit that undoes the changes in the specific commit and so does not change the history-

# Master I slave architecture?

- -> They are used to sun containarized application and handling netrookking to ensure traffic blue the applications.
- -> A node which is linked to another node is termed as a "slave node" and the node which is it is linked is termed as master node.

  Scanned with CamScanner

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- management and for providing API used to configure and manage resources with in the cluston.
- nowever à slave node can have many slave nodes, nowever à slave node can have only one master rade.

#### cloud in Aws

Aws is designed to allow application provident Isvs, and vendors to quickly a secretly host our applications.

### how to delete the commit in git?

Git Reset.

#### Metadata

A set of data that describes 4 gives the to information about other data.

#### What are container images?

- > A container image is a static file with executable code that that a can create a container on a computing system.
- A contairon image is immutable es and can be deployed consistently in any envisonment

Pods are the smallest deployable units of pods are that we can areate and manage computing that we can areate and manage in kubernotes.

A 1 30.

### Kubectl

kubect is a command line

> kubernetes clusters.

## K8s Advantages

Auto scaling > we can increase /decrease suplicas based on sequirements.

位于一直到此一一点一点的

Autohoding -) if container fails k8s will automatically seploy the new pod before old pod 'goes to terminate state

monitoring => metric service (work on any rode audi get info from any pad through c-admin)

Better secrosity