**Kubeadm Setup**

**STEP1:  Create a master**

1. Create an ec2 with t2.medium type and run the below command
2. curl -s <https://raw.githubusercontent.com/jaintpharsha/install/main/k8s/cluster_setup_using_kubeadm_new.sh> | bash -s master
3. if the above command executes successfully then we get kubeadm join command with the token save this command in a separate file, and run this join command in worker nodes to add to this master.

**STEP2: Add worker nodes**

1. Create 2 ec2 with t2.micro type and run the below command
2. curl -s https://raw.githubusercontent.com/jaintpharsha/install/main/k8s/cluster\_setup\_using\_kubeadm\_new.sh | bash -s worker
3. Run the kubeadm join command which we got from a master node in worker nodes to add to that master.   
   (If the join command is lost run this in the master node: kubeadm token create --print-join-command)

**Kubernetes Installation using Kops**

**1. Install and cofigure AWS CLI   
    2. Install kops   
        https://kops.sigs.k8s.io/getting\_started/install/  
    3. create a s3 bucket to save all the cluster-info (etcd like)  
        aws s3api create-bucket --bucket <bucket\_name> --create-bucket-configuration LocationConstraint=<aws\_region>  
    4. Create a cluster using kops   
        kops create cluster --yes --state=s3://kops-etcd-98765212245asd324 --zones=ap-south-1a --node-count=2 --node-size=t2.micro --master-size=t2.medium --name=mycluster.k8s.local**

    5. Setup kubectl   
        5a. set the store env variable   
            export KOPS\_STATE\_STORE='s3://kops-etcd-98765212245asd324'  
        5b. Set kubectl context to cluster      
            kubectl config set-context <cluster\_name>  
            kubectl config set-context mycluster.k8s.local

To delete cluster in kops   
    1. List clusters   
        kops get clusters  
    2. Delete the required cluster   
         kops delete cluster <cluster\_name> --yes