SetUp Kubernetes Cluster on AWS with Kops 1. Generate SSH Key ssh-keygen -f .ssh/id rsa 2. Rename kops-linux-amd64 to kops for user easy. sudo mv /usr/local/bin/kops-linux-amd64 /usr/local/bin/kops ******* Create Cluster ******* Command if you are using your Domain Name: kops create cluster --yes --state=<s3://<Define S3 Bucket Name>> -zones=<One or more Zones> --node-count=<Number of Nodes> --nodesize=<Define Machine Size> --master-size=<Master Node Size> --name=<Define DNS Name> Like : kops create cluster --yes --state=s3://kops-storage-b345987 -zones=ap-south-1a,ap-southeast-1b,ap-southeast-2c --node-count=2 -node-size=t2.micro --master-size=t2.micro --name=test.easybix.com For Non DNS Base Cluster, work with .k8s.local kops create cluster --yes --state=s3://kops-storage-b345987 -zones=ap-south-1a,ap-southeast-1b,ap-southeast-2c --node-count=2 -node-size=t2.micro --master-size=t2.micro --name=test.k8s.local 4. Verify Node Status kubectl get node 5. Validate Cluster kops validate cluster 6. Let's create a Kubernetes Deployment using an existing image named echoserver, which is a simple HTTP server and expose it on port 8080 using --port. kubectl run hello-minikube --image=k8s.gcr.io/echoserver:1.10 -port=8080 7. In order to access the hello-minikube service, we must first expose the deployment to an external IP via the command: kubectl expose deployment hello-minikube --type=NodePort 8. Check if the service was exposed kubectl get services 9. Modify Security Group Of Nodes to access the Service 10. Delete Kubernetes Cluster form AWS kops delete cluster --name \${NAME} --yes kops delete cluster --name test.k8s.local --yes