Deploy nodejs application into Kubernetes cluster.

Task -1:

Step-1: Deployed AWS eks cluster using cft attached link for cft location

Step-2: Connect to cluster and deploy nodejs helloworld application

* Created dockerfile
* Created service and deployment files
* Created aws alb ingress controller
* Created policy which has proper access to cluster and other services part of EKS
* Created Service account and attached above policy to service account
* Once aws alb ingress controller is up and running. Deploy nodejs helloworld application into Kubernetes cluster

Task -2:

A – To make application scalable we are using replicaset as 2 in our manifest files

B – To Deploy application to Kubernetes cluster from code commit was done by developer

Will use webhook to trigger my Jenkins pipeline. Jenkinsfile will be added to github application code itself to run Jenkins declerative pipeline

C – To store deployment keys will use secrets part of Kubernetes on cluster itself

D – To test scalability of the application will do load test using any 3rd party tool

E – To provide ssl certificates. We can do secure at alb loadbalancer level. So our ingress file will redirects traffic on 443 only

All files are uploaded to github.