1. Create EC2 instance with t2.medium, storage 30GB and Security group all traffic anywhere
2. Install Kubernate

curl -LO "https://dl.k8s.io/release/**$(**curl -L -s https://dl.k8s.io/release/stable.txt**)**/bin/linux/amd64/kubectl"

sudo chmod +x kubectl

sudo mv kubectl /usr/bin/

sudo su –

1. Install minikube

curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64

sudo install minikube-linux-amd64 /usr/local/bin/minikube

1. Install Docker

sudo yum update -y;sudo yum install docker -y;sudo systemctl start docker;sudo usermod -a -G docker ec2-user;sudo systemctl enable docker;sudo systemctl status docker

1. Start minkube

yum install conntrack

minikube start --vm-driver=none

1. Install git and clone your project repository

yum install git

git clone https://github.com/mossheik/CarParkingApplication.git

cd CarParkingApplication

1. Build Docker Image and Upload to dockerHub

Signup on dockerhub platform

Come back to project directory

cd CarParkingApplication

docker build -t YOURUSERID/carparking .

docker login

type userid and password

docker image ls

docker push mohsin12435/carparking

NOW, checkout DockerHub

1. Locate your Deployment files directory

cd CarParkingApplication

cd .config

1. Apply Deployment files

kubectl apply -f db\_deployment.yml

kubectl apply -f service\_db.yml

Copy postgress service ip address by running below command

kubectl get svc

replace jdbc ipaddress in below file with above copied address

vim app\_deployement.yml

kubectl apply -f app\_deployement.yml

kubectl get pod

kubectl get pod --show-labels : copy label from here ex: app=server

vim service\_app.yml : paste here in this file at selector: app: server

kubectl apply -f service\_app.yml

kubectl get all : to check everything which have builed

and now copy port from service/myapp ex: 8080:31650/TCP here port is 31650

1. Now its time run your application in browser
2. Access Database

kubectl exec -it postgrescontainerid bash

su -l postgres

psql