Problem Statement

You are working as a Devops Administrator. You've been tasked to deploy a multitier application on Kubernetes Cluster. The application is a NodeJS application available on Docker Hub with the following name:

devopsedu/employee

This NodeJS application works with a mongo database. MongoDB image is available on DockerHub with the following name:

mongo

You are required to deploy this application on Kubernetes:

- NodeJS is available on port 8888 in the container and will be reaching out to port 27017 for mongo database connection
- . MongoDB will be accepting connections on port 27017

You must deploy this application using the CLI.

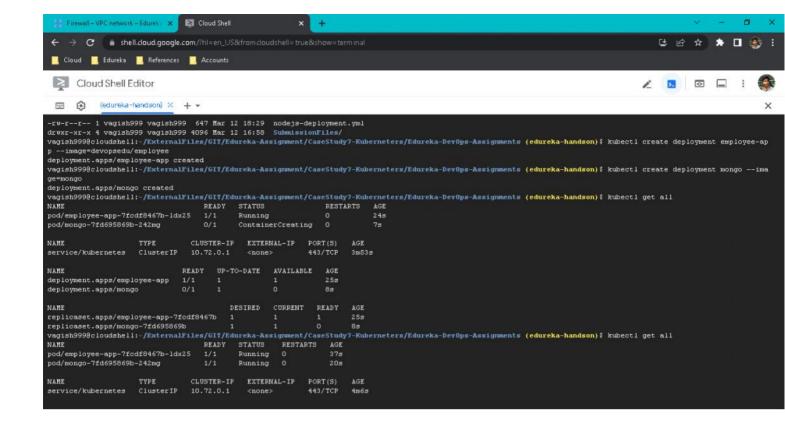
Once your application is up and running, ensure you can add an employee from the NodeJS application and verify by going to Get Employee page and retrieving your input.

Hint: Name the Mongo DB Service and deployment, specifically as "mongo".

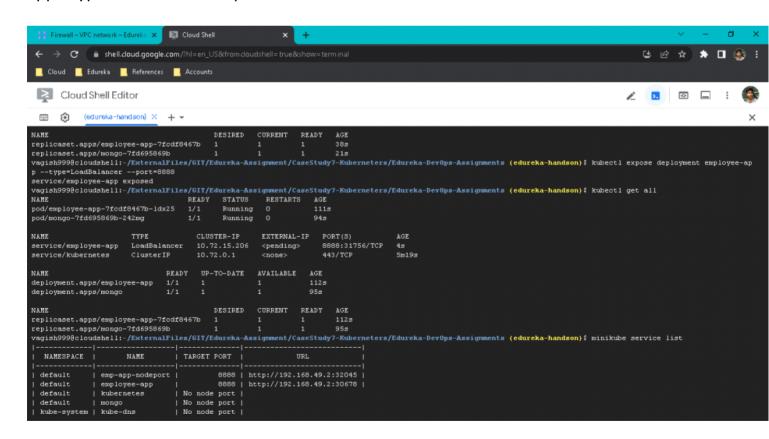
gcloud config set project edurekahandson gcloud container clusters create vag-gkecluster --num-nodes=2 --zone=uscentral1-a

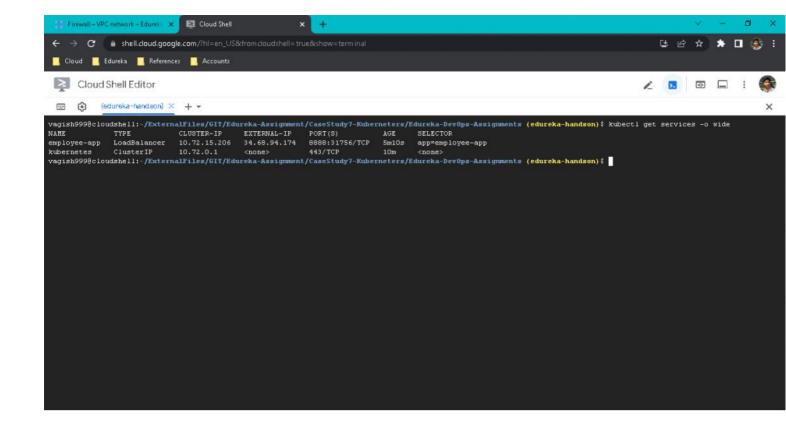
kubectl create deployment employeeapp --image=devopsedu/employee

kubectl create deployment mongo -- image=mongo

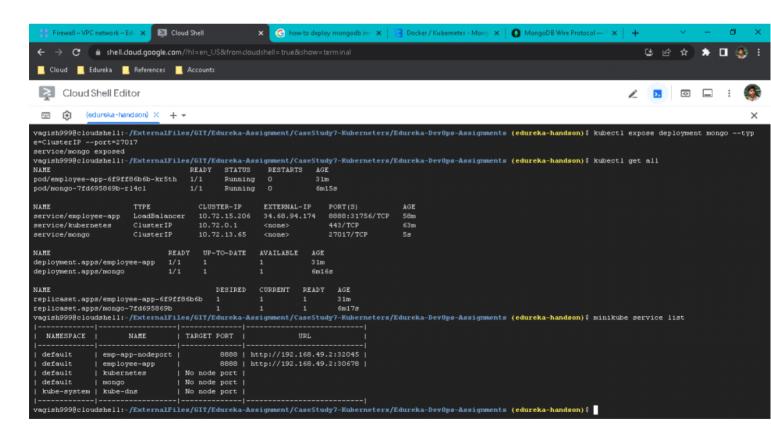


kubectl expose deployment employeeapp --type=LoadBalancer --port=8888





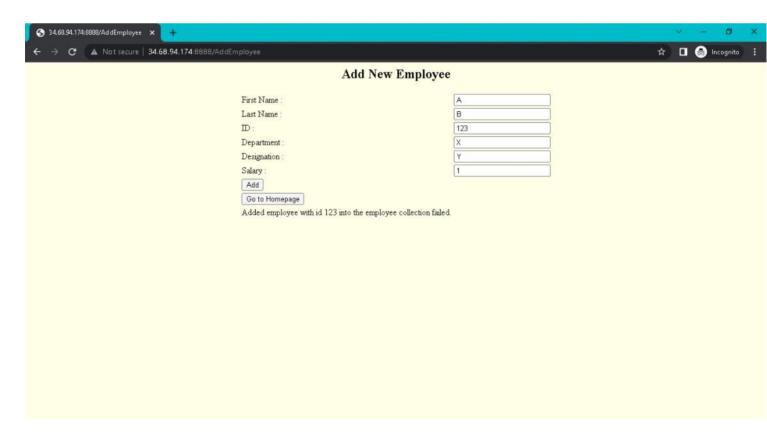
kubectl expose deployment mongo -type=ClusterIP --port=27017

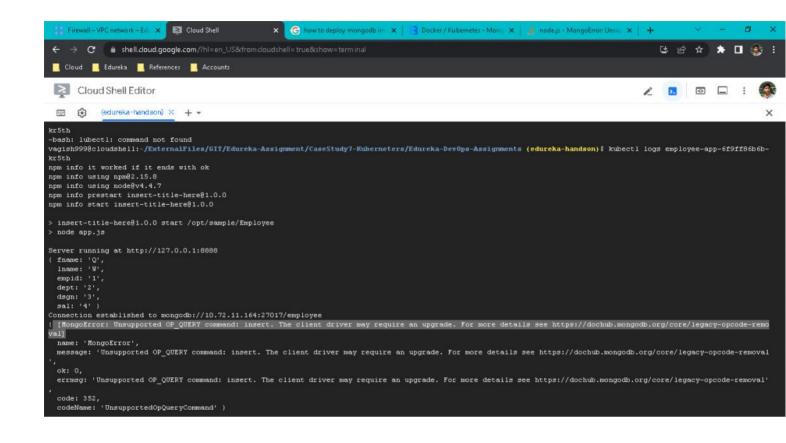


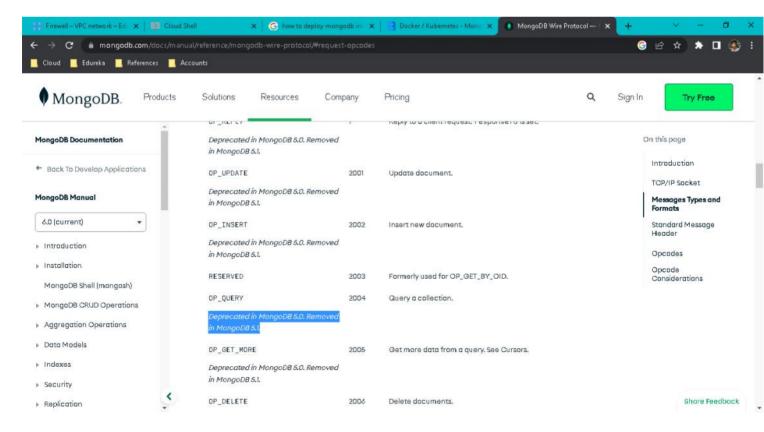
Able to Access Node JS Application



Adding Employee Failed as code used in image Node JS application in devopsedu/employee has older Query Syntax which is deprecated from MongoDB







Uploaded PDF with consolidated Screenshots. Below tasks are performed:

- 1. nodeJs deployed using given Employee Image
- 2. Mongo DB deployed using Mongo Image
- 3. Exposed Ports to access the application
- 4. Checked Connectivity between NodeJS & Mongo DB: worked fine.
- 5. Accessed Web page from Public IP.