Unit 4.3 Graded Assignment:

Instructions:

Display logs of a running MongoDB container. Add a document to the DB via Mongo Express frontend. Get into the pod and verify the document's existence via *mongosh*.

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Solution:

```
saifrehman@all-MS-7D35: __/Documents/eme/SaifUrRehman-DEG-007/Assignment 4.3(kubernetes)/hands-on$ minikube start
W0515 15:50:59.150756 209564 main.go:291] Unable to resolve the current Docker CLI context "default": context "default" does not exist
minikube v1.30.1 on Ubuntu 22.04
Using the docker driver based on existing profile
Starting control plane node minikube in cluster minikube
Pulling base image ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.26.3 on Docker 23.0.2 ...
Configuring bridge CNI (Container Networking Interface) ...

Verifying Kubernetes components...
■ Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: storage-provisioner, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

```
• saifrehman@all-MS-7D35:~/Documents/eme/SaifUrRehman-DEG-007/Assignment_4.3(kubernetes)/hands-on$ kubectl apply -f mongo-secret.yaml secret/mongodb-secret unchanged
• saifrehman@all-MS-7D35:~/Documents/eme/SaifUrRehman-DEG-007/Assignment_4.3(kubernetes)/hands-on$ kubectl apply -f mongodb-deployment.yaml deployment unchanged
• saifrehman@all-MS-7D35:~/Documents/eme/SaifUrRehman-DEG-007/Assignment_4.3(kubernetes)/hands-on$ kubectl apply -f mongodb-service.yaml service/mongo-service unchanged
• saifrehman@all-MS-7D35:~/Documents/eme/SaifUrRehman-DEG-007/Assignment_4.3(kubernetes)/hands-on$ kubectl apply -f mongo-configmap.yaml configmap/mongodb-configmap unchanged
• saifrehman@all-MS-7D35:~/Documents/eme/SaifUrRehman-DEG-007/Assignment_4.3(kubernetes)/hands-on$ kubectl apply -f mongo-express-deployment.yaml deployment.apps/mongo-express unchanged
• saifrehman@all-MS-7D35:~/Documents/eme/SaifUrRehman-DEG-007/Assignment_4.3(kubernetes)/hands-on$ kubectl apply -f mongo-express-service.yaml service/mongo-express-service unchanged
```

```
saifremmangall-MS-7035:-/Documents/eme/SaifUrRehman-DEG-007/Assignment 4.3(kubernetes)/hands-on$ kubectl exec -it mongo-deployment-85bbdc6549-qzp8h -- /bin/bash root@mongo-deployment-85bbdc6549-qzp8h -- /bin/bash root@mongo-de
```