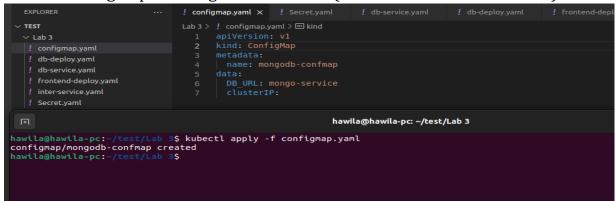
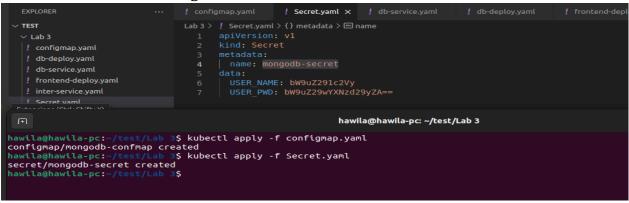
1 Create ConfgMap or MongoDB EndPoint. (The MondoDB sevice name)



2 Create A secret or MongoDB User & PWD



3 Create MongoDB Deployment Application with Internal service (ClusterIp) Mongo DB needs



```
Lab3 > ! db-deploy.yaml > () spec > () template > () spec > [] containers > () 0 > @ image

apiversion: apps/v1
kind: Deployment

metadata:

ame: mongodb-deployment

labels:

app: mongo-app

selector:

matchLabels:

app: mongo-app

template:

metadata:

labels:

app: mongo-app

template:

name: mongo-app

image: mongo-sepp

image: mongo-sepp

ame: mongo-secret

env:

name: mongodb-secret

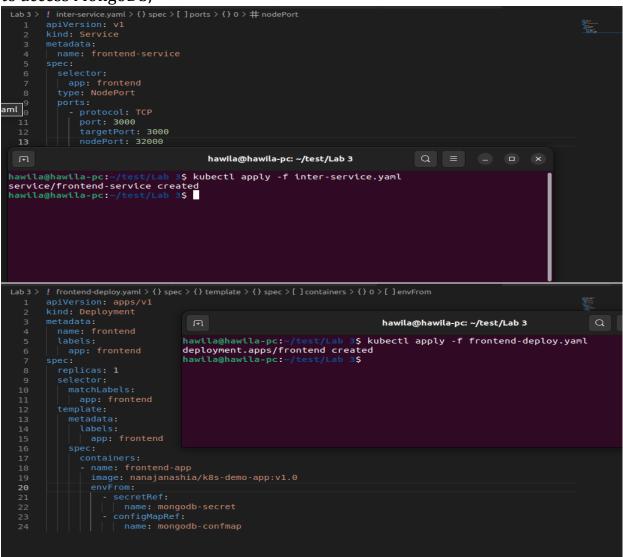
env:

name: MONGO_INITDB_ROOT_PASSWORD

value: coot

value: example
```

4 Create webApp Deployment(FrontEnd(with external service) and it needs to access MongoDb,



```
| Navilaghawila-pc: $ kubectl get pods | READY | STATUS | RESTARTS | AGE | AGE
```

8- How many Nodes exist on the system?

```
Editor Tobl +

Initialising Kubernetes... done

controlplane $ kubectl get nodes

NAME STATUS ROLES AGE VERSION
controlplane Ready control-plane 6d10h v1.26.0
node01 Ready <none> 6d9h v1.26.0
controlplane $ $
```

9- Do you see any taints on master?

```
Editor Tobl •

controlplane $ kubectl describe node controlplane
Name:
Controlplane
Roles:
Controlplane
Roles:
Controlplane
Controlplane
Roles:
Controlplane
Cont
```

10- Apply a label color=blue to the master node

```
Editor Tob1 +

controlplane $ kubectl label node controlplane color=blue
node/controlplane labeled
controlplane $ kubectl describe node controlplane
Name:

controlplane $ controlplane
Name:

controlplane
klabels:

beta.kubernetes.io/arch=amd64
beta.kubernetes.io/arch=amd64
beta.kubernetes.io/arch=amd64
kubernetes.io/arch=amd64
kubernetes.io/arch=amd64
kubernetes.io/arch=amd64
kubernetes.io/arch=amd64
kubernetes.io/arch=amd64
```

11- Create a new deployment named blue with the nginx image and 3 replicas

```
Editor Tabl +

| Spiversion: apps/vi | Kind: Deployment | Radings | Part | Part
```

12- node01 taint

```
Controlplane $ kubectl taint node node01 spray=mortien:NoSchedule
node/node01 tainted
controlplane $ kubectl describe node01
error: the server doesn't have a resource type "node01"
controlplane $ kubectl describe node node01
error: the server doesn't have a resource type "node01"
controlplane $ kubectl describe node node01
nomerolplane $ kubectl describe node01
nomerolplane $ kubectl describe node01
nomerolplane $ kubectl describe node01
node.alpha.coreos.com/backend-type: vxlane | flane1.alpha.coreos.com/backend-type: vxlane | flane1.alpha.coreos.com/backend-typ
```

13- Create a new pod with the NGINX image, and Pod name as mosquito

```
Editor Tabl +
apiVersion: v1
kind: Pod
metadata:
name: mosquito
spec:
containers:
- name: nginx
image: nginx:1.14.2
ports:
- containerPort: 80
```

14- What is the state o the mosquito POD?

```
Editor __Tob1_ +
controlplane $ vim pod.yaml
controlplane $ kubectl apply -f pod.yaml
pod/mosquito created
controlplane $ kubectl get pod mosquito
NAME READY STATUS RESTARTS AGE
mosquito 1/1 Running 0 40s
controlplane $ $
```

15- Create another pod named bee with the NGINX image

```
Editor Tobl +

apiVersion: v1
kind: Pod
metadata:
name: bee
spec:
containers:
- name: nginx
inage: nginx:1.14.2
ports:
- containerPort: 80
tolerations:
- key: "spray"
operator: "Exists"
effect: "NoSchedule"
```