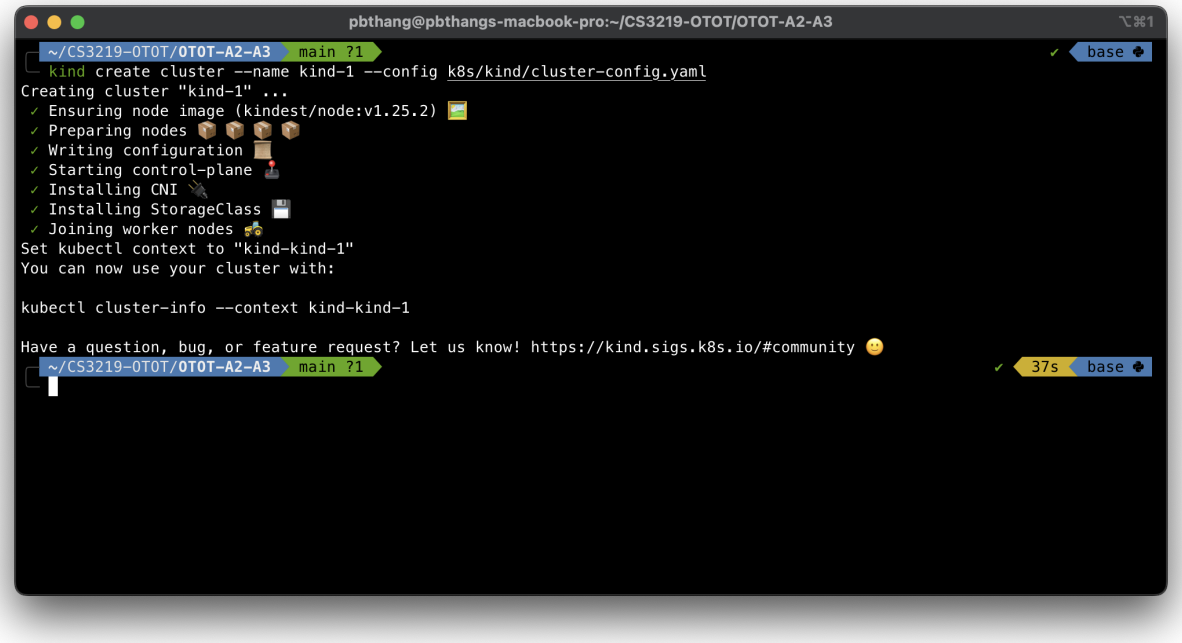
OTOT Task A2-3 Report

Name: Pham Ba Thang
Matric No: A0219715B
Repo: https://github.com/pbthang/OTOT-A2-A3

Task A2.1

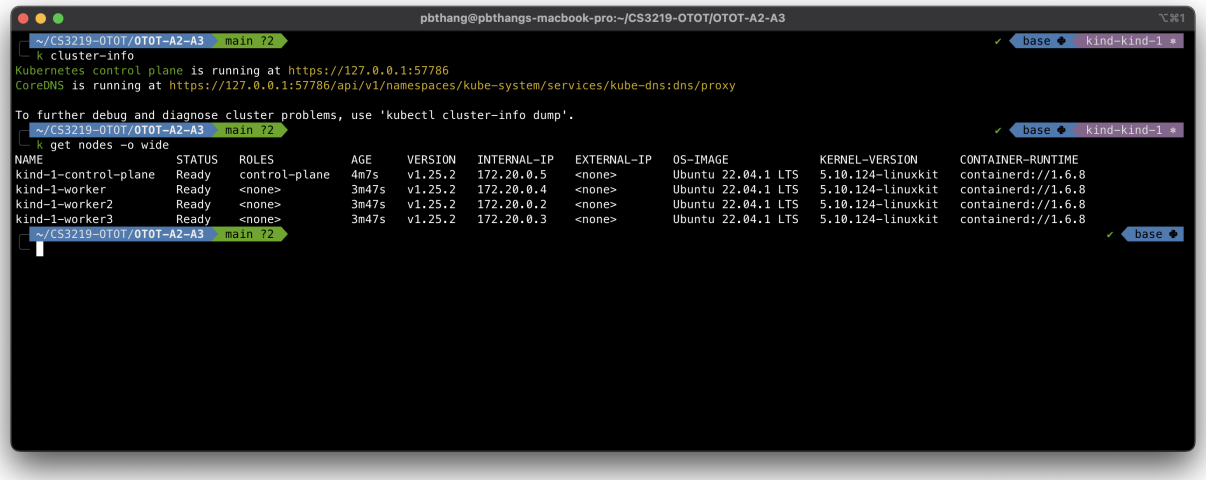
- Create a cluster using `kind`:

```
kind create cluster --name kind-1 --config k8s/kind/cluster-
config.yaml
```



- Verify cluster and nodes are running:

```
kubectl cluster-info --context kind-kind-1
kubectl get nodes --context kind-kind-1 -o wide
```



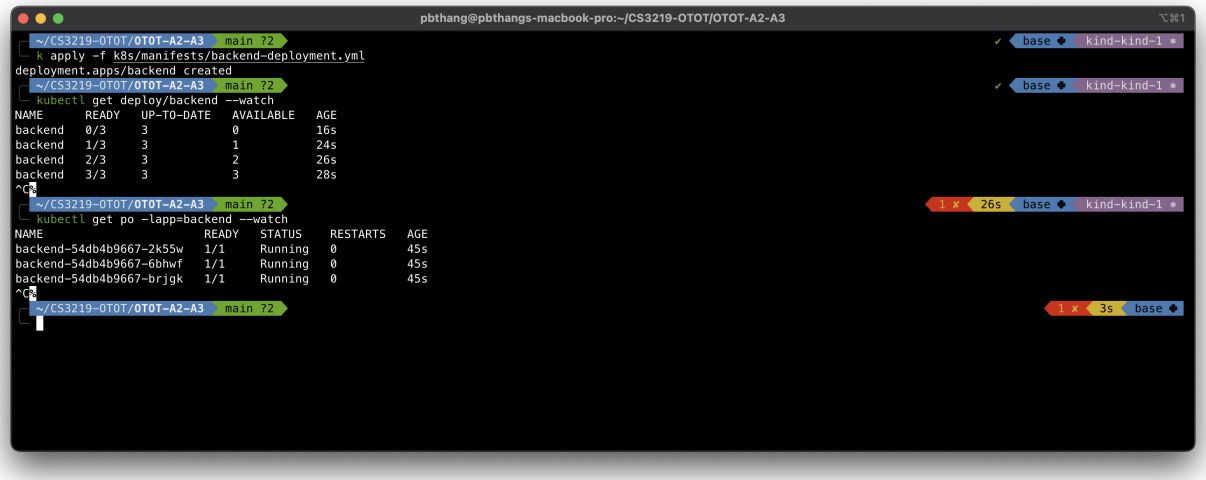
Task A2.2

- Create a deployment:

```
kubectl apply -f k8s/manifests/backend-deployment.yml
```

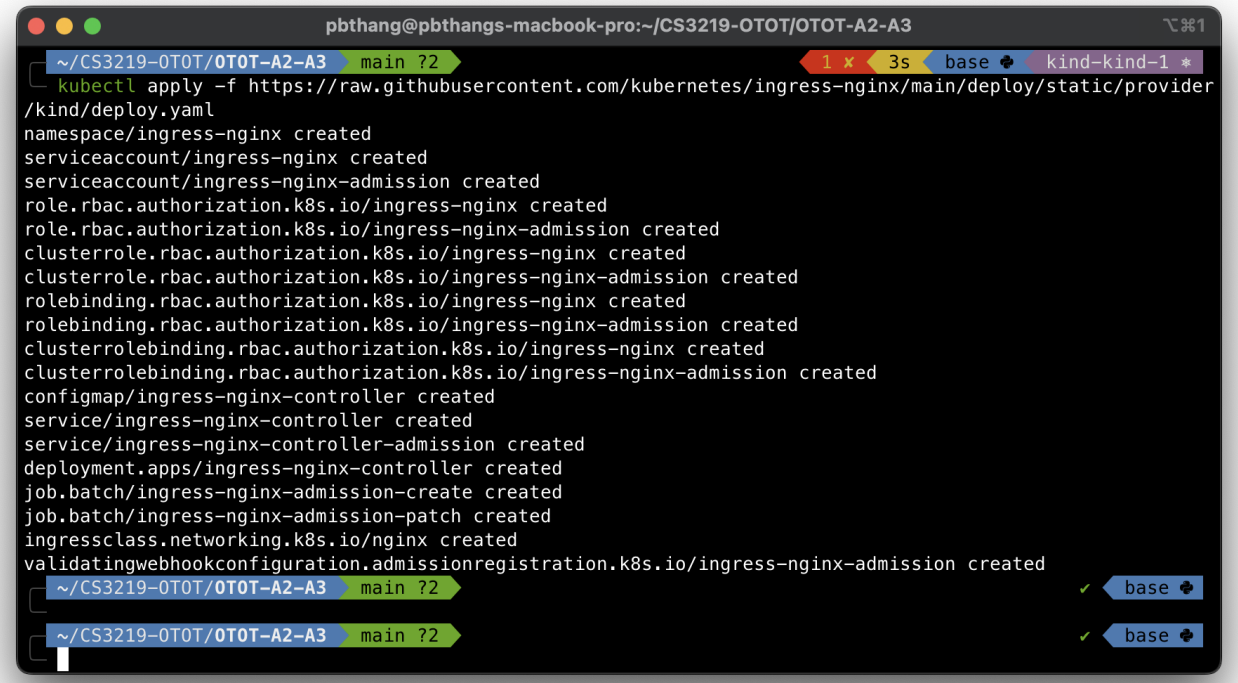
- Verify that deployments/pods is running:

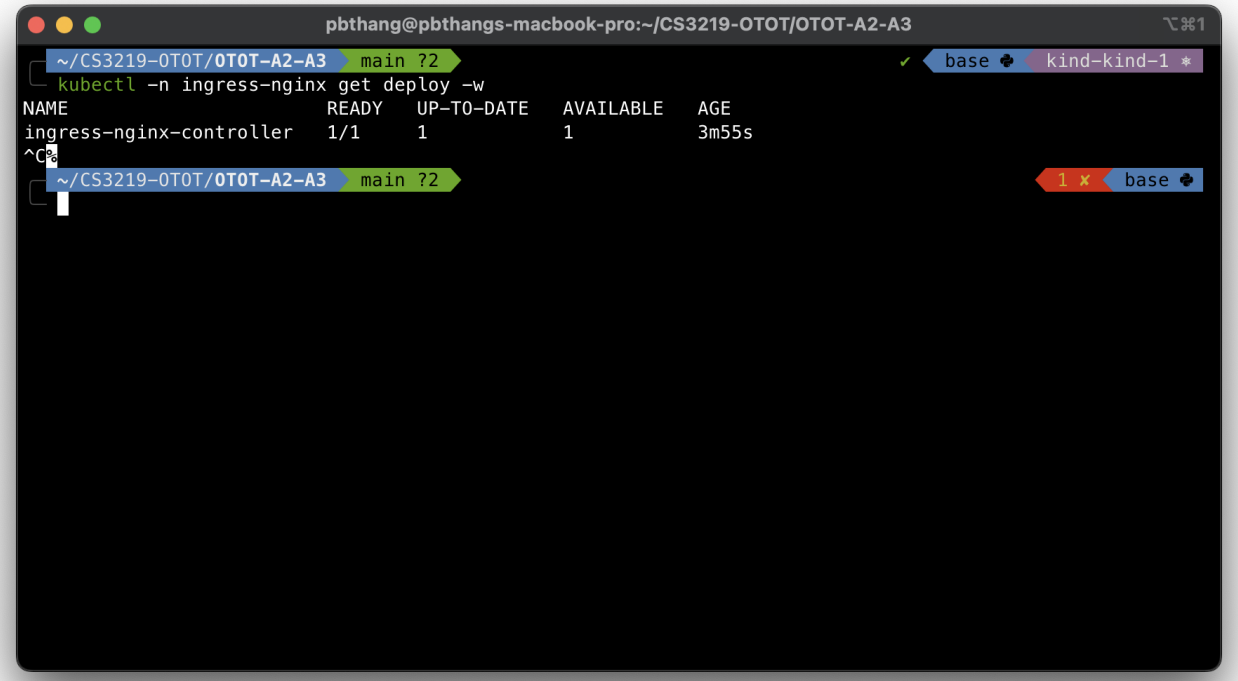
```
kubectl get deploy/backend --watch
kubectl get po -lapp=backend --watch
```



- Create Ingress controller (nginx-ingress-controller) and verify it

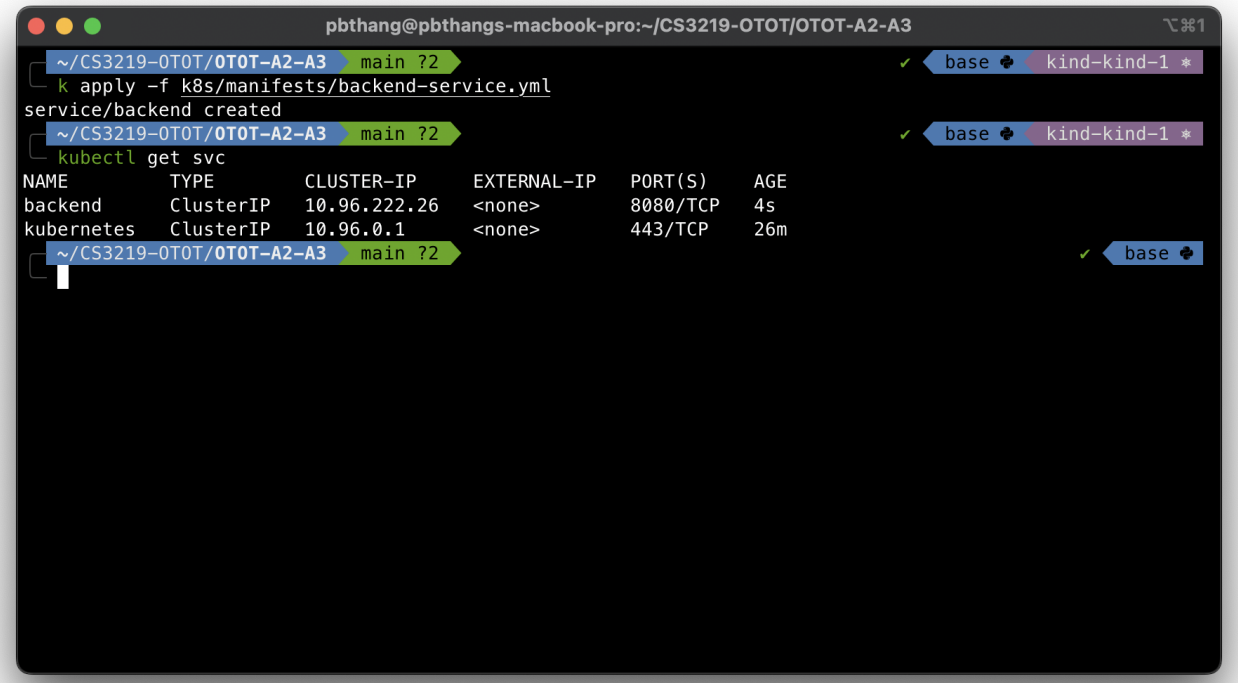
```
kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/main/deploy/static/provider/kind/deploy.yaml
kubectl -n ingress-nginx get deploy -w
```





- Create a Service and verify it

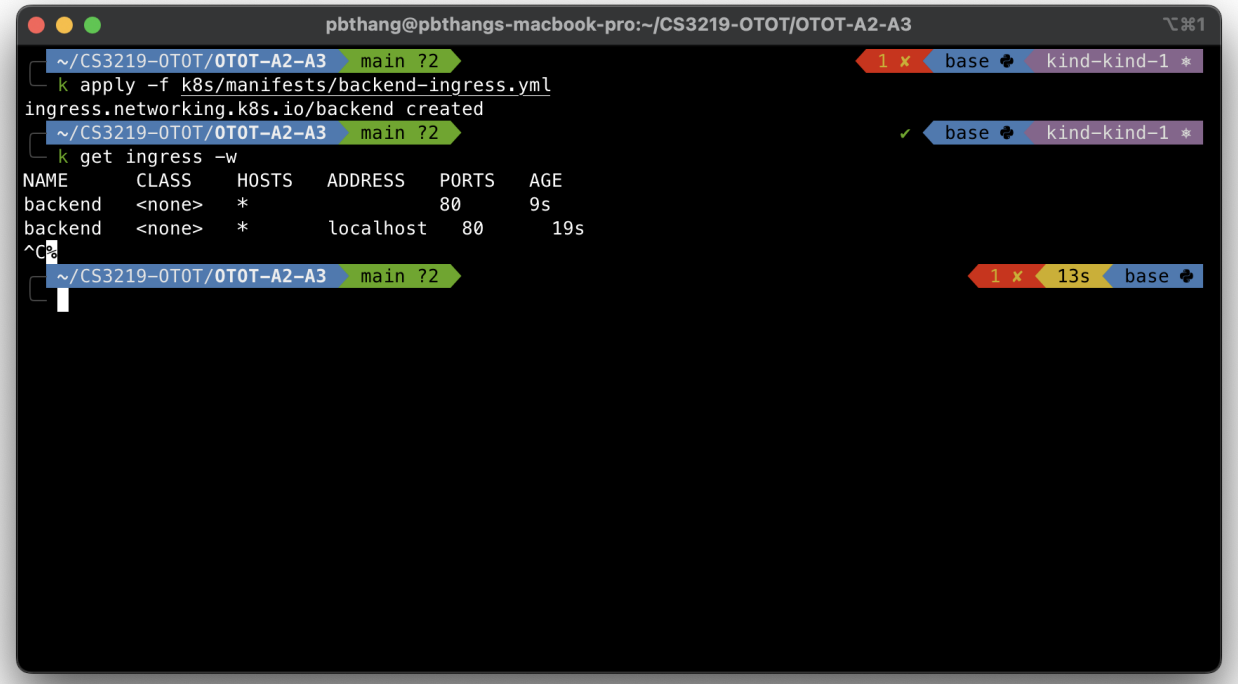
```
kubectl apply -f k8s/manifests/backend-service.yml
kubectl get svc
```



Task A2.3

- Create an Ingress and verify it

```
kubectl apply -f k8s/manifests/backend-ingress.yml
kubectl get ingress -w
```



If you succeed, then you should see this on `http://localhost`: