Task A2

Submission Information

Option	Description
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Link to GitHub Repository	https://github.com/capeguy/cs3219-otot/OTOT_Task_A2/
Instructions	Below
Other Relevant Learnings	null

Kubectl Commands

Deploy Image

```
kubectl apply -f nginx-deployment.yml
```

```
→  OTOT_Task_A2 git:(master) ✗ cat nginx-deployment.yml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  selector:
    matchLabels:
      run: nginx-deployment
  replicas: 2
  template:
    metadata:
      labels:
        run: nginx-deployment
    spec:
      containers:
      - name: nginx-custom
        image: capeguy/task_a:latest
        imagePullPolicy: Always
        ports:
        - containerPort: 80
→  OTOT_Task_A2 git:(master) ✗ kubectl apply -f nginx-deployment.yml
deployment.apps/nginx-deployment created
```

Configure Service

```
kubectl apply -f nginx-service.yml
```

```
→  OTOT_Task_A2 git:(master) ✗ cat nginx-service.yml
apiVersion: v1
kind: Service
metadata:
  name: nginx-service
  labels:
```

```
    labels:
        run: nginx-service
spec:
    type: NodePort
    ports:
    - port: 80
      targetPort: 80
      protocol: TCP
    selector:
        run: nginx-deployment
→  OTOT_Task_A2 git:(master) ✗ kubectl apply -f nginx-service.yml
service/nginx-service created
```
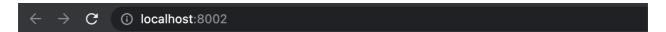
Access Deployed Image Through Service

Port Forward to service

```
kubectl port-forward service/nginx-service 8002:80
```

```
→  OTOT_Task_A2 git:(master) ✗ kubectl port-forward service/nginx-service 8002:80
Forwarding from 127.0.0.1:8002 -> 80
Forwarding from [::1]:8002 -> 80
```

Navigate to http://localhost:8002 on a Web Browser

← → C ⓘ localhost:8002

Hello! This is the HTML page served from NGINX.