Managing Access from Outside with K8s Ingress

Relevant Documentation

- Ingress
- Ingress Controllers

Lesson Reference

Note: This lesson depends on objects that were created in the previous lesson. If you are following along, you will need to go through the previous lesson first.

Create an ingress that maps to a Service.

```
vi my-ingress.yml
```

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: my-ingress
spec:
  rules:
  - http:
      paths:
      - path: /somepath
        pathType: Prefix
        backend:
          service:
            name: svc-clusterip
            port:
              number: 80
```

```
kubectl create -f my-ingress.yml
```

Check the status of the ingress.

```
kubectl describe ingress my-ingress
```

Update the Service to provide a name for the Service port.

```
vi svc-clusterip.yml
```

```
apiVersion: v1
kind: Service
metadata:
  name: svc-clusterip
spec:
  type: ClusterIP
  selector:
    app: svc-example
  ports:
    - name: http
      protocol: TCP
      port: 80
      targetPort: 80
```

```
kubectl apply -f svc-clusterip.yml
```

Edit the Ingress to use the port name.

```
vi my-ingress.yml
```

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: my-ingress
spec:
  rules:
  - http:
      paths:
      - path: /somepath
        pathType: Prefix
        backend:
          service:
            name: svc-clusterip
            port:
              name: http
```

```
kubectl apply -f my-ingress.yml
```

Check the status of the ingress again.

```
kubectl describe ingress my-ingress
```