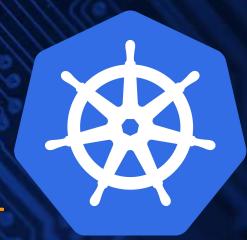
Manage Services in Kubernetes

Manage Access via Ingress Controller





K8s Network Policies

- → What is an Ingress
- → Ingress Controllers
- → Routing to a Service
- → Routing to Service with Named Port

What is an Ingress

Ingress in Kubernetes Manage the External Access to Service.



- Apart from NodePort Service, Ingress is capable of many more.
- Provide the SSL Termination, Load Balancing, NameBase Virtual Hosting.

Ingress Controllers

- ➤ In order for the Ingress resource to work, the cluster must have an ingress controller running.
- Variety of Ingress Controller available in K8s to provide the multiple mechanism for external access of Service.
- You can deploy any number of Ingress Controller.

Ingress Controllers

- Ingress define a set of Routing Rules.
- Each Rule has a set of Paths, each with a Backend. Request matching a path will be routed to associated Backend.

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
 name: sample-ingress
spec.
 rules
 - http:
   paths
   - path: /testpath
     pathType: Prefix
     backend:
      service:
       name: test
       port:
        number: 80
```

NamedPort

➤ If Service Use NamedPort, ingress can also use the port's name to choose to which port it will route.

```
apiVersion: v1
kind: Service
metadata:
name: nginx-service
spec:
selector:
app: frontend
ports:
- name: nginx-port
protocol: TCP
port: 80
targetPort: 80
```

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
 name: sample-ingress
spec.
 rules
 - http:
    paths:
   - path: /testpath
     pathType: Prefix
     backend
      service.
       name: test
       port:
        name: nginx-port
```

Hands On Demonstration

Thank You...

Don't be the Same! Be Better!!!