**Kubectl top**

**Pre-requsite**

**Create 2 namespaces**

1. **Fubar**
2. **My-app**
3. **Label my-app namespace project=my-app**

kubectl create ns fubar

kubectl create ns my-app

kubectl label ns my-app project=my-app

Task - Create a new NetworkPolicy named allow-port-from-namespace in the existing namespace fubar. Ensure that the new NetworkPolicy allows Pods in namespace my-app to connect to port 9000 of Pods in namespace fubar. Further ensure that the new NetworkPolicy: ✑ does not allow access to Pods, which don't listen on port 9000 ✑ does not allow access from Pods, which are not in namespace my-app

Solution

vim net-yaml

apiVersion: networking.k8s.io/v1

kind: NetworkPolicy

metadata:

name: allow-port-from-namespace

namespace: fubar

spec:

podSelector: {} # This selects all pods in the 'fubar' namespace

policyTypes:

- Ingress

ingress:

- from:

- namespaceSelector:

matchLabels:

project : my-app # This assumes that the 'internal' namespace has a label 'name' with value 'internal'

ports:

- protocol: TCP

port: 9000

Here's a breakdown of the YAML:

podSelector: {}: This selects all pods in the fubar namespace.

policyTypes: - Ingress: This specifies that the policy type is for ingress traffic.

from: This section specifies the sources of the allowed ingress traffic.

namespaceSelector: This selects the source namespace from which the traffic is allowed. In this case, it's the internal namespace. This assumes that the internal namespace has a label name with value my-app. If it doesn't, you'll need to adjust the namespaceSelector to match the actual labels of the internal namespace.

ports: This section specifies the allowed ports for ingress traffic.

protocol: TCP: This specifies the protocol type.

port: 9000: This specifies that only traffic directed to port 9000 is allowed.

kubectl create -f net.yaml

kubectl get pods