Listing and describing the Network Policies

```
Microsoft Windows [Version 10.0.22631.4169]
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C:\Users\jagad>kubectl get networkpolicy --all-namespaces
NAMESPACE           NAME                  POD-SELECTOR   AGE
feature1-namespace  allow-same-namespace  <none>        12m
feature2-namespace  allow-same-namespace  <none>        12m

C:\Users\jagad>kubectl describe networkpolicy allow-same-namespace -n feature2-namespace
Name:        allow-same-namespace
Namespace:   feature2-namespace
Created on:  2024-10-02 19:29:30 +0530 IST
Labels:      <none>
Annotations: <none>
Spec:
  PodSelector:      <none> (Allowing the specific traffic to all pods in this namespace)
  Allowing ingress traffic:
    To Port: <any> (traffic allowed to all ports)
    From:
      PodSelector: <none>
  Not affecting egress traffic
  Policy Types: Ingress
```

I am doing a curl for the svc running in feature2-namespace and then to feature1-namespace by logging into a pod running in feature1-namespace. Each service has an html page indicating which Feature and service it is.

```
C:\Users\jagad>kubectl exec -it service-a-7b77f9f6-qd4z9 -n feature1-namespace -- /bin/sh
# curl -m 10 http://service-a.feature2-namespace.svc.cluster.local
curl: (28) Connection timed out after 10000 milliseconds
# curl service-a
<html>
<head><title>Service A</title></head>
<body>
  <h1>Feature-1 Service A(n+1)</h1>
</body>
</html>
# curl service-b
<html>
<head><title> Feature1 Service B</title></head>
<body>
  <h1>Feature-1 Service B(n)</h1>
</body>
</html>
# |
```
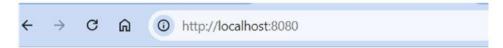
Similarly doing curl from feature2-namespace to the services running in both the namespaces

```
C:\Users\jagad>kubectl exec -it service-a-7b77f9f6-k9z8c -n feature2-namespace -- /bin/sh
# curl -m 10 http://service-a.feature1-namespace.svc.cluster.local
curl: (28) Connection timed out after 10001 milliseconds
# curl service-a
<html>
<head><title>Feature-2 Service A</title></head>
<body>
  <h1>Feature-2 Service A(n)</h1>
</body>
</html>
# curl service-b
<html>
<head><title>Feature-2 Service B(n+1)</title></head>
<body>
  <h1>Feature-2 Service B(n+1)</h1>
</body>
</html>
# exit
```

Listing all the svc

```
C:\Users\jagad>kubectl get svc --all-namespaces
NAMESPACE           NAME          TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)                  AGE
default             kubernetes    ClusterIP   10.96.0.1       <none>        443/TCP                  10h
feature1-namespace  service-a     ClusterIP   10.101.182.124  <none>        80/TCP                   10h
feature1-namespace  service-b     ClusterIP   10.100.229.221  <none>        80/TCP                   10h
feature2-namespace  service-a     ClusterIP   10.101.76.181   <none>        80/TCP                   10h
feature2-namespace  service-b     ClusterIP   10.107.151.5    <none>        80/TCP                   10h
kube-system         kube-dns      ClusterIP   10.96.0.10      <none>        53/UDP,53/TCP,9153/TCP   10h
```

Each service html pages below

http://localhost:8080

Feature-1 Service A(n+1)

http://localhost:8081

Feature-1 Service B(n)

http://localhost:8082

Feature-2 Service A(n)

http://localhost:8083

Feature-2 Service B(n+1)