

# Controlling Network Access with NetworkPolicies - Part 2

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## Relevant Documentation

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- [NetworkPolicies](#)
- [Cluster Networking](#)

## Exam Tips

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- Even if a NetworkPolicy allows outgoing traffic from the source Pod, NetworkPolicies could still block the same traffic when it is incoming to the destination Pod.

## Lesson Reference

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Log in to the **control plane node**.

Now let's create a NetworkPolicy to allow traffic coming from the client Pod.

```
vi np-test-client-allow.yml
```

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: np-test-client-allow
  namespace: np-test-a
spec:
  podSelector:
    matchLabels:
      app: np-test-server
  policyTypes:
  - Ingress
  ingress:
  - from:
    - namespaceSelector:
        matchLabels:
          team: bteam
      podSelector:
        matchLabels:
          app: np-test-client
    ports:
    - protocol: TCP
      port: 80
```

```
kubectl apply -f np-test-client-allow.yml
```

Check the client Pod's log again. The traffic should be allowed now.

```
kubectl logs client-pod -n np-test-b
```

Let's create a setup to restrict outgoing traffic for the client Pod.

Create a default deny Egress policy for the `np-test-b` Namespace.

```
vi np-test-b-default-deny-egress.yml
```

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: np-test-b-default-deny-egress
  namespace: np-test-b
spec:
  podSelector: {}
  policyTypes:
    - Egress
```

```
kubectl apply -f np-test-b-default-deny-egress.yml
```

Check the client Pod's log. Traffic should now be denied.

```
kubectl logs client-pod -n np-test-b
```

Create a Policy to allow the Egress traffic from the client Pod. This time, we'll allow traffic to any Pod in the `np-test-a` Namespace.

```
vi np-test-client-allow-egress.yml
```

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: np-test-client-allow-egress
  namespace: np-test-b
spec:
  podSelector:
    matchLabels:
      app: np-test-client
  policyTypes:
    - Egress
  egress:
    - to:
        - namespaceSelector:
            matchLabels:
              team: ateam
      ports:
        - protocol: TCP
          port: 80
```

```
kubectl apply -f np-test-client-allow-egress.yml
```

Check the client Pod's log. Traffic should be allowed once more.

```
kubectl logs client-pod -n np-test-b
```