# Kubernetes - Network Policy

Network Policy defines how the pods in the same namespace will communicate with each other and the network endpoint. It requires **extensions/v1beta1/networkpolicies** to be enabled in the runtime configuration in the API server. Its resources use labels to select the pods and define rules to allow traffic to a specific pod in addition to which is defined in the namespace.

First, we need to configure Namespace Isolation Policy. Basically, this kind of networking policies are required on the load balancers.

kind: Namespace

apiVersion: v1

metadata:

annotations:

net.beta.kubernetes.io/network-policy: |

{

"ingress":

{

"isolation": "DefaultDeny"

}

}

$ kubectl annotate ns <namespace> "net.beta.kubernetes.io/network-policy =

{\"ingress\": {\"isolation\": \"DefaultDeny\"}}"

Once the namespace is created, we need to create the Network Policy.

## Network Policy Yaml

kind: NetworkPolicy

apiVersion: extensions/v1beta1

metadata:

name: allow-frontend

namespace: myns

spec:

podSelector:

matchLabels:

role: backend

ingress:

- from:

- podSelector:

matchLabels:

role: frontend

ports:

- protocol: TCP

port: 6379