

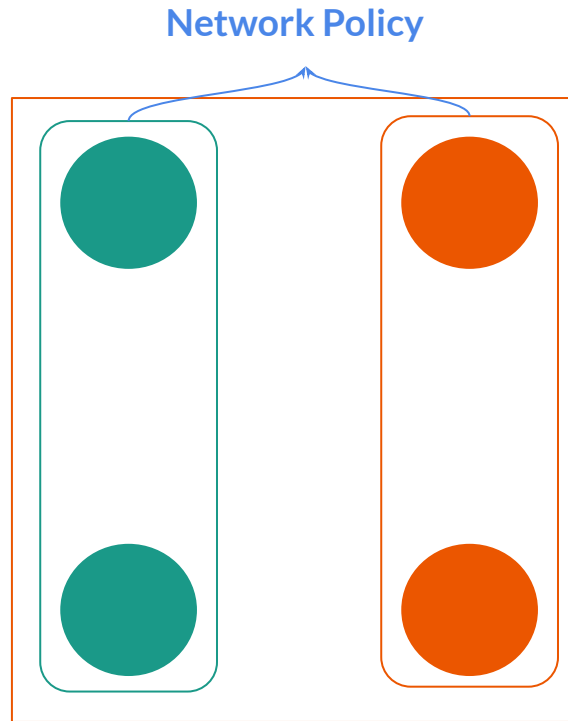
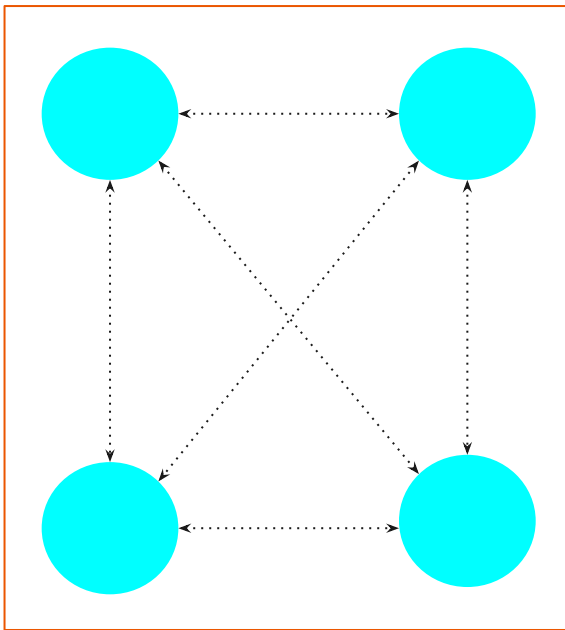
# CKA/CKAD : Complete Certification Guide

## Network Policies Overview



## CKA/CKAD Certification

- By default Pods are non-isolated resource and can accept the traffic from any resource.



- The entities that a Pod can communicate with are identified through a combination of the following 3 identifiers:
  - Other pods that are allowed
  - Namespaces that are allowed
  - IP blocks
- By default, if no policies exist in a namespace, then all **ingress** and **egress** traffic is allowed **to** and **from** pods in that namespace.

## CKA/CKAD Certification

➤ Deny All Ingress Traffic

```
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: default-deny-ingress
spec:
  podSelector: {}
  policyTypes:
    - Ingress
```

➤ Allow All Ingress Traffic

```
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-all-ingress
spec:
  podSelector: {}
  ingress:
    - {}
  policyTypes:
    - Ingress
```

## CKA/CKAD Certification

➤ Deny All Egress Traffic

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

➤ Allow All Egress Traffic

```
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: allow-all-egress
spec:
  podSelector: {}
  egress:
    - {}
  policyTypes:
    - Egress
```

## CKA/CKAD Certification

- Allow Fnt to DB Pods Traffic Only.

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: db-frontend-allow
spec:
  podSelector:
    matchLabels:
      app: np-test-mariadb
  ingress:
    - from:
        - podSelector:
            matchLabels:
              app: np-test-wordpress
      ports:
        - protocol: TCP
          port: 3306
```

# Thank You...

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

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