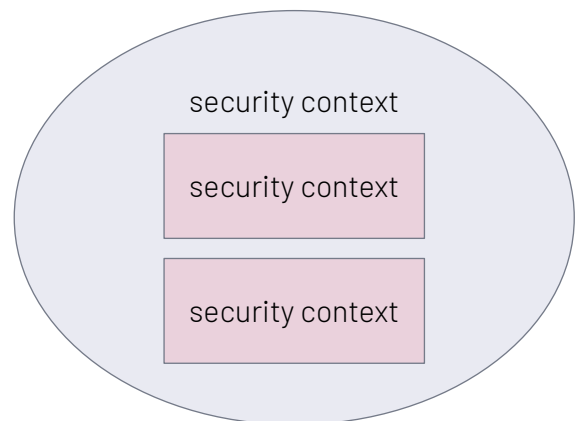# Kubernetes Security Contexts
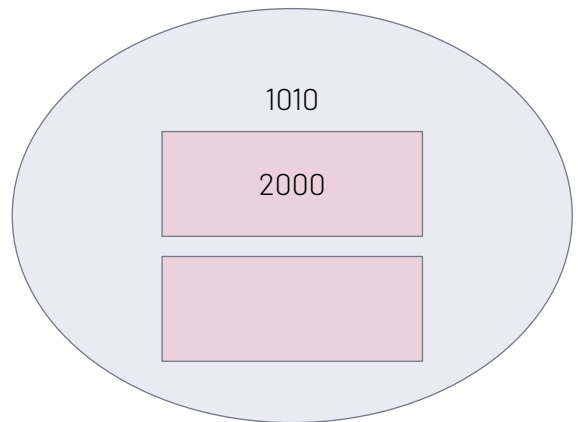

Security Context for a Pod or container

- Security contexts define **permissions** and **access control** settings for pods or containers.

- Kubernetes provides **two methods** to configure security contexts: **Pod Security Context** and **Container Security Context**

security context

security context

security context

Security Context for a Pod or container

- Security contexts define **permissions** and **access control** settings for pods or containers.

- Kubernetes provides **two methods** to configure security contexts:
Pod Security Context and **Container Security Context**

1010

2000

Pod Security Context

- Configure a security context for a pod. The configured **security context applies to all the containers and volumes in the pod**.

```
apiVersion: v1
kind: Pod
metadata:
  name: security-context-demo
spec:
  securityContext:
    runAsUser: 1000
    runAsGroup: 3000
  containers:
  - name: sec-ctx-demo
    image: busybox:1.28
```

Container Security Context

- Configure a security context for a container. The configured **security context applies to the container.**

- Security settings that you specify for a Container apply only to the individual Container, and they **override settings made at the Pod level** when there is overlap.

```
apiVersion: v1
kind: Pod
metadata:
  name: security-context-demo-2
spec:
  securityContext:
    runAsUser: 1000
  containers:
  - name: sec-ctx-demo-2
    image: gcr.io/google-samples/node-hello:1.0
    securityContext:
      runAsUser: 2000
      allowPrivilegeEscalation: false
```

THANKS!

Any questions?