



# Lab 8

# Kubernetes Security Intermediate Skills



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### Objectives

Build on Lab 7 (Kubernetes Security Introduction) and explore

- Authentication
- Cloud Native Security Details
- Runtime Security
- Encryption
- And more

Practice more hands-on commands to make you proficient in real world Kubernetes security.

### Pre-work requirements

For all users

- Blog for Labs 7 and 8
- Slides for Labs 7 and 8
- [Intro to Kubernetes](#)

For advanced users

- [Kasten K10 documentation](#)
- [Free Kasten K10 download](#)

# Lab 8 - Part 1

## Key Security Terminology Review



### Kubernetes Security Example

Admission controllers are Kubernetes-native features that help you define and manage what is allowed to run on the cluster.

For example, they enforce security policies, manage deployments resources and even block vulnerable images from being deployed.

### Terminology

- Authentication
- Role-based access control (RBAC) plugin
- Run-time security with security context
- Pod Security Standards
- Encryption and Secret Management

# Lab 8 - Part 2

## Kubernetes Security – Intermediate Skills

### Commands for the Lab

- Using Roles and RoleBindings
- Configuring the Container's Security Context
- Encrypting Secrets





Thank You