Szkolenie: Component Soft

KBS-302 Kubernetes and Container-based Application Security with CKS exam.prep.

DOSTĘPNE TERMINY

2026-12-15 | 2 dni | Kraków / Wirtualna sala
2026-12-22 | 2 dni | Warszawa / Wirtualna sala
2026-12-29 | 2 dni | Kraków / Wirtualna sala

Cel szkolenia:

This 2-day long training introduces concepts, procedures, and best practices to harden Kubernetes based systems and container-based applications against security threats. It deals with 6 main areas of cloud-native security: Kubernetes cluster setup, Kubernetes cluster hardening, hardening the underlying operating system and networks, minimizing microservices vulnerabilities, supply chain security as well as monitoring, logging, and runtime security.

This course does not only prepare delegates for the daily security administration of Kubernetes-based systems but also for the official Certified Kubernetes Security Specialist (CKS) exam of the Cloud Native Computing Foundation (CNCF).

Structure: 50% theory 50% hands on lab exercises.

Target audience: Kubernetes administrators who participated on one of our Kubernetes administration trainings or have a Certified Kubernetes Administrator (CKA) certifiction and want to learn about securing Kubernetes based systems and container-based applications.

Plan szkolenia:

- Module 1: User and authorization management
  - Users and service accounts in Kubernetes
  - Authenticating users
  - Managing authorizations with RBAC
- Module 2: Supply chain security
  - Vulnerability checking for images
  - Image validation in Kubernetes
  - Reducing image footprint
  - Secure image registries

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- Module 3: Validating cluster setup and penetration testing
  - Use CIS benchmark to review the security configuration of Kubernetes components
  - Modify the cluster components' configuration to match the CIS Benchmark
  - Penetration testing Kubernetes for known vulnerabilities
- Module 4: System hardening
  - Use kernel hardening tools
  - Setup appropriate OS level security domains
  - Container runtime sandboxes
  - Limit network access
- Module 5: Monitoring and logging
  - Configure Kubernetes audit logs
  - Configure Audit Policies
  - Monitor applications behavior with Falco

Wymagania:

Linux container (e.g. Docker) and Kubernetes admin. skills, for instance by participating on our Docker and Kubernetes administration courses.

Poziom trudności



Certyfikaty:

The participants will obtain certificates signed by Component Soft (course completion).

Prowadzący:

Certyfikowany Trener Component Soft.

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