

Level up your Kubernetes skills

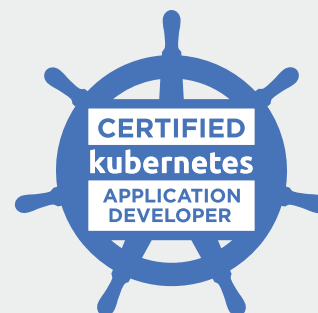
At Nuaware, we've been training Enterprises and Individuals since 2016 on Containers, Kubernetes and cloud native security. Nuaware and ControlPlane jointly developed this best-practice-driven Kubernetes curriculum. These courses include quizzes, production debugging and hacking workshops on real clusters combined with practical examples, and real-world scenarios based on deploying and supporting secure, high compliance, mission-critical distributed systems.

- **Kubernetes Application Developer**
- **Kubernetes Administrator**
- **Kubernetes Security Specialist**

Kubernetes Application Developer (CKAD)

This course introduces participants to container orchestration with Kubernetes. Attendees will master the foundational concepts of Kubernetes in development and production through a combination of presentations, demos, and hands-on labs, including building and deploying Kubernetes applications, Cloud Native Continuous Delivery, and cluster monitoring and debugging. It also covers system components, core resources, and the requirements for minimum viable cluster security.

This course prepares for the CKAD exam.



Course Outline

- What real-world problems does Kubernetes solve?
- Kubernetes in historical context
- Container basics: Linux cgroups and namespaces
- Core resources and kubectl
- Kubernetes system components
- Container networking
- Developer workflow Deploying an application: CI pipeline, containerisation, testing, secure configuration, liveness & readiness probes, and useful kubectl tips
 - Interactive cluster debugging

Pricing

- EUR 750 per seat
 - GBP 650 per seat
- Private training available upon request.

Prerequisites

- Familiarity with the bash shell
 - Filesystem navigation and manipulation
- Command line text editors like vim or nano

Who Should Attend

This course is designed for those who are new to Kubernetes and containers, as well as those who have had exposure but would like to gain a deeper understanding. No prior knowledge of Kubernetes is required. This course is suitable for developers, operations, architects and anyone seeking to gain a strong foundation in modern, Cloud Native software delivery.

Kubernetes Application Administrator (CKA)

This course builds on CKAD - Kubernetes Fundamentals by digging deeper into how Kubernetes works.

It covers advanced features and use-cases to prepare engineers for the day-to-day reality of creating, maintaining and debugging Kubernetes clusters in production.

This course prepares for the CKA exam.



Course Outline

- Installing, upgrading, and maintaining Kubernetes
- Cluster architecture and topologies
- Advanced features: networking, storage and ingress
- Zero-downtime deployments and secrets management
- Maintaining etcd
- Enterprise RBAC and authentication
- Testing cluster security
- Interactive production cluster debugging
- Vendor and tooling landscape
- Comparison of cloud-provider Kubernetes offerings
- Self-service, multi-tenant Kubernetes platforms for enterprises

Pricing

- EUR 1250 per seat
- GBP 1050 per seat

Private training available upon request

Prerequisites

- Kubernetes Fundamentals, CKAD or equivalent.

Who Should Attend

This course is designed for anyone with a basic understanding of Kubernetes and prepares attendees to run production Kubernetes clusters. The course is also suitable for technical managers who want a better understanding of an SRE's role in Cloud Native application delivery.

[To book or request more information](#)

[Get in touch](#)

Kubernetes Security Specialist (CKS)

This course focuses on the best practices of securing a Kubernetes cluster from the control plane and nodes to the workloads themselves.

Attendees will increase their core Kubernetes knowledge and focus on how to attack and defend in depth through a combination of presentations and most hands-on lab and live Capture the Flag scenarios.

This course prepares for the CKS exam.



Course Outline

- Secure cluster setup and management
- Cluster Hardening
- System Hardening
- Minimize Microservice Vulnerabilities
- Supply Chain Security
- Monitoring, Logging and Runtime Security

Pricing

- EUR 1600 per seat
- GBP 1400 per seat

Private training available upon request

Prerequisites

- Kubernetes Operations, CKA or equivalent.

Who Should Attend

This course is designed for those who understand the core components of containers and Kubernetes and are looking to further deep dive their knowledge to understand the potential threats and exploits that can occur from a misconfigured Kubernetes cluster. This course is suitable for anyone who already understands Cloud Native technologies and is seeking to gain further understanding of best security practices in Cloud Native software delivery.