

Kubernetes CKA Professional

Duration: 3 Days Course Code: GKKUBCKA

Overview:

Develop the practical expertise required for production-facing roles supporting cloud native and AI platforms at scale.

This Kubernetes CKA Professional course is a Kubernetes Fundamentals and CKA exam theory training. The Certified Kubernetes Administrator (CKA) program was created by the Cloud Native Computing Foundation (CNCF), in collaboration with The Linux Foundation (TLF), to help develop the Kubernetes ecosystem based on an understanding of the Kubernetes Architecture, in the context of IT development, Microservices, and Cloud-Native so that you, at the end of this course, can start using Kubernetes as Engineer based on understanding, and insight into Kubernetes,

This training follows the contents as prescribed for the CKA exam for certification by offering the theory in presentation form and performing multiple detailed exercises. The experiences you gain during the training will give you tools to use Kubernetes in practice and prepares you, for the theoretical part, for the CKA exam.

Updated July 2026

Target Audience:

The training is meant for: Engineers responsible for designing, setting up, or managing Kubernetes clusters. The level of entry is from beginning to medium knowledge of Kubernetes. For anyone who aims to obtain certification as a Certified Kubernetes Administrator (CKA). This training teaches the theory needed for the CKA Exam.

Objectives:

- After this course participants should be able to:
- Install and configure Kubernetes clusters
- Work with core concepts like
- Pods,
- Deployments,
- Services,
- Ingress,
- Gateway API.
- Apply security and high availability practices in real-world production environments
- Prepare the certification exam CKA

Prerequisites:

- Minimum dexterity/basic knowledge of Linux command-line (Bash, Linux commands), Private Keys and Public Keys are required to follow the pace of this training.

Testing and Certification

Certified Kubernetes Administrator: The Certified Kubernetes Administrator (CKA) program is spearheaded by CNCF in partnership with The Linux Foundation. This certification is designed for professionals looking to demonstrate their hands-on Kubernetes skills.

CKA is a performance-based exam where candidates interact with the command line to solve real-world challenges, not just multiple-choice questions.

Follow-on-Courses:

The following is recommended for further study:

- Kubernetes Administrator Advanced (GKKUBCKAA)
- GKKUBCKA-E -

Content:

Topics taught:	Chapter 6. API Objects	Chapter 12. Scheduling
■ A History of IT		
■ Virtualization: what is a Virtual Machine, a Container, and the difference between the two	Chapter 7. Managing State with Deployments	Chapter 13. Logging and Troubleshooting
■ What is Kubernetes, what is Cloud Native? And why is this development important?	Chapter 8. Helm and Kustomize	Chapter 14. Custom Resource Definitions
■ Kubernetes architecture, principles, components, resources (deployment, replicaset, pods)	Chapter 9. Volumes and Data	Chapter 15. Security
■ Basic concepts of Kubernetes: control plane, resources in detail, services, draining nodes, setting limits, tolerations, anti-affinity, horizontal scaling, deployments, release management ; canary releases, liveliness checks, readiness checks updates, rollbacks, configmaps ; secrets, lifecycle-hooks ; init containers, logging, monitorin	Chapter 10. Services	Chapter 16. High Availability
■ Storage	Chapter 11. Ingress	Chapter 17. Exam Domain Review
■ Kubernetes use principles: Helmet, Ingress Controller		
■ Kubernetes security: Role Based Access Control (RBAC).		
Chapter 1. Course Introduction		
Chapter 2. Basics of Kubernetes		
Chapter 3. Installation and Configuration		
Chapter 4. Kubernetes Architecture		
Chapter 5. APIs and Access		

Additional Information:

Digital course book provided to paticipants

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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