

Kubernetes CKAD Professional

Durée: 3 Jours **Réf de cours: GKKUBCKAD** **Méthodes d'apprentissage: Intra-entreprise & sur-mesure**

Résumé:

This Kubernetes CKAD Professional course is a training for Developers and a Certified Kubernetes Application Developer (CKAD) exam theory training. The training covers the Kubernetes Fundamentals for Developers as defined by the Cloud Native Computing Foundation (CNCF) and tested in the CKAD exam: from the background of the Kubernetes Architecture in the context of IT development, Microservices, and Cloud-Native so that you can start using Kubernetes from a point of view, understanding, and insight at the end of the training

The training is hands-on: every participant has their own bare-metal cluster the training is loaded with exercises and examples (which you carry out yourself), so Kubernetes will be taught by doing, at the level of CKAD.

The experiences you gain during the training will give you tools to use Kubernetes in practice and prepare them, based on the theory, for the CKAD exam.

Does your organization start embracing Kubernetes? And do you want to make the next step in the world of Kubernetes and become a specialist? Then this training is perfect for you.

Formation intra-entreprise

Cette formation est délivrable en session intra-entreprise, dans vos locaux ou dans les nôtres. Son contenu peut être adapté sur-mesure pour répondre aux besoins de vos collaborateurs. Contactez votre conseiller formation Global Knowledge ou adressez votre demande à info@globalknowledge.fr.

Public visé:

The training is meant for: Developers or DevOps Engineers who are responsible for developing, building, or rolling out applications that need to run on Kubernetes hosting. The entry-level level is from beginning to medium knowledge of Kubernetes. For anyone who aims to obtain certification as a Certified Kubernetes Application Developer (CKAD). This training teaches the theory needed for the CKA Exam..

Objectifs pédagogiques:

- The starting points of this training are:
- Hands-on learning of Kubernetes in the basics and on bare metal. In accordance with the theory as expected by the Cloud Native Foundation for certification.
- After this training, the participant will be able to make a start with Kubernetes in his/her organization.
- After this training, the participant has the basic knowledge to set up and use Kubernetes on both on-premise and managed hosting.
- Learning the Kubernetes basis, as formulated by the CNCF, from a hands-on approach and based on the Kubernetes architecture (to provide understanding and context).
- This training lays the foundation needed for certification and deepening so that follow-up training can build on this.
- On the basis of this training the participant gets insight into Kubernetes and an overview of the level of application, microservice, and 'modern application architecture'.
- Based on working and elaborated expert examples the participant can start with Kubernetes expert parts in their own organization after the training or build a solution based on obtained examples.

Pré-requis:

- 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.

Test et certification

In this training, the basic knowledge required for the CKAD exam will be taught. The exam itself consists of assignments, which makes the exam a test for skills and speed of action.

Après cette formation, nous vous conseillons le(s) module(s) suivant(s):

The following courses are recommended for further study:

- Kubernetes Developer Advanced (GKKUBCKADA)

Contenu:

The fundamentals follow the content as prescribed for the CKAD exams for certification. The training consists of a part theory in presentation form plus performing some 30 to 40 detailed exercises. Topics that are passing by:

- A History IT
- Virtualization: What is a Virtual Machine and what is a Container. And what is the difference between the two?
- The Microservices paradigm
- What is Kubernetes, what is Cloud Native? And why is this development important
- Kubernetes architecture;
- Kubernetes principles
- Kubernetes components
- Kubernetes Resources (deployment, replicaset, pods)
- Basic concepts of Kubernetes: control plane, resources in detail, services, draining nodes, setting limits, tolerations, affinity/anti-affinity, horizontal scaling, deployments, release management ; canary releases, startup/liveliness ; readiness checks, rollbacks, configmaps ; secrets, lifecycle-hooks ; init containers, logging, monito
- Storage
- Kubernetes use principles: Helmet, Ingress Controller
- Kubernetes security: Role-Based Access Control (RBAC)

Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou "booking form" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via moncompteformation.gouv.fr.

Accueil des bénéficiaires :

- En cas de handicap : plus d'info sur globalknowledge.fr/handicap