

Architecting on Kubernetes (ARKU)

ID ARKU **Prix** CHF 2 990,— (Hors Taxe) **Durée** 3 jours

A qui s'adresse cette formation

This course is designed for:

- Solutions Architects
- Software Developers
- Operations Engineers
- DevOps Engineers
- Technical Managers

Pré-requis

This course is technical in nature. We examine Kubernetes from multiple perspectives: top to bottom, inside and out. We use the command line and write YAML files. While no one will be left behind, participants should bring motivation and curiosity.

Expected knowledge includes:

- Linux basics
- Basic shell commands
- File editing on the command line
- Understanding of virtualization
- Web application architecture fundamentals

Objectifs

In this course, you will learn to:

- Make architectural decisions based on Kubernetes architectural principles and paradigms
- Leverage Kubernetes features to make your applications scalable, reliable, and highly available
- Leverage the Kubernetes infrastructure to enable greater flexibility and resiliency of your overall solution
- Adopt security best practices for their applications and clusters.
- Deploy applications on clusters.

Contenu

Day 1

- Introduction to and History of Kubernetes
- 10,000 Feet View of Kubernetes
- Crash Course: Docker Fundamentals
- Lab 1: Deploying the First Container
- Applications on Kubernetes (Pods, Services, Deployments)
- Interfacing with Kubernetes with kubectl
- Lab 2: Deploying a Real-World Application

Day 2

- Guide to Kubernetes Cluster Infrastructure
- Security with Secrets, RBAC and Namespaces
- Networking Overview
- Lab 3: Securing the Application
- Understanding Ingress
- Storage Options
- Stateful Sets
- Lab 4: Databases on Kubernetes

Day 3

- High-Availability and Disaster Recovery
- Elasticity and Scaling
- Cloud Options
- Lab 5: Spinning up a Cluster on Your Favorite Cloud Provider
- Using Helm
- Course Wrap-Up

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Centres de formation dans le monde entier



Fast Lane Institute for Knowledge Transfer (Switzerland) AG

Husacherstrasse 3
CH-8304 Wallisellen
Tel. +41 44 832 50 80

info@flane.ch, <https://www.flane.ch>