

Architecting on Kubernetes (ARKU)

ID ARKU **Price** CHF 2,990.—(excl. VAT) **Duration** 3 days

Who should attend

This course is intended for:

- Solutions architects
- Software developers
- Technical managers

Course Objectives

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.

Course Content

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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Training Centres worldwide



Fast Lane Institute for Knowledge Transfer GmbH

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

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