

Kubernetes Essentials

Learn to deploy and manage containerised applications on Kubernetes, from core architecture to storage and lifecycle management.

1 Day

DURATION

4

MODULES

13

TOPICS

COURSE OVERVIEW

This course introduces container orchestration and the architecture of Kubernetes. It covers managing core resources such as pods, labels and selectors, replica sets and ClusterIP services. It then addresses application lifecycle management, including deployment strategies and managing deployments. Finally, it looks at storage concepts, covering volumes, persistent volumes and persistent volume claims.

WHO THIS COURSE IS FOR

Kubernetes Administrators

DevOps Engineers

System Administrators

Cloud Engineers

Application Developers

LEARNING OBJECTIVES

- Explain container orchestration and the Kubernetes architecture
- Configure pods, labels and selectors within a cluster
- Manage replica sets to maintain application availability
- Configure ClusterIP services for internal communication
- Compare deployment strategies for application rollout
- Implement and manage deployments across their lifecycle
- Apply volumes and persistent volumes for storage
- Configure persistent volume claims for workloads

TRAINING APPROACH

This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

4 Modules, 13 Topics

01

Core Concepts

TOPICS

Overview of Container Orchestration · Introduction to Kubernetes · Kubernetes Architecture

02

Managing Resources

TOPICS

Managing Pods · Managing Labels & Selector · Managing Replica Set · Managing Service - ClusterIP

03

Application Lifecycle Management

TOPICS

Overview of Deployment · Deployment Strategies · Managing Deployment

04

Storage

TOPICS

Volumes · Persistent Volumes · Persistent Volume Claim

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

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✉ info@koenig-solutions.com