KOENIG SOLUTIONS · COURSE OUTLINE

GitOps: Argo CD & Progressive Delivery

Learn to deploy and manage applications with Argo CD and implement progressive delivery using Argo Rollouts.

2 Days	4	20
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course introduces GitOps principles, including its use cases and trade-offs. It covers Argo CD basics such as installation, creating applications and syncing, before moving to reconciliation, application health, sync strategies, secret management and declarative setup with Helm and Kustomize. It then addresses progressive delivery through Argo Rollouts, covering blue/green and canary deployments, automated rollbacks based on metrics, and integrating Argo Rollouts with Argo CD.

WHO THIS COURSE IS FOR

- **DevOps Engineers**
- **Platform Engineers**
- **Site Reliability Engineers**
- **Release Managers**
- **Kubernetes Administrators**

PREREQUISITES

- Kubernetes Knowledge is Required

LEARNING OBJECTIVES

- Explain what GitOps is and identify its use cases
- Compare the pros and cons of GitOps
- Install Argo CD and create an application
- Apply sync strategies and manage application health
- Configure secret management and declarative setup
- Deploy applications with Helm and Kustomize
- Implement blue/green and canary deployments with Argo Rollouts
- Configure automated rollbacks based on metrics

TRAINING APPROACH

This hands-on class is approximately 60/40 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

COURSE SYLLABUS

4 Modules, 20 Topics

01

About GitOps

TOPICS

What is GitOps · GitOps Use Cases · GitOps Pros and Cons

02

Argo CD Basics

TOPICS

Introduction to Argo CD · Argo CD Installation · Creating an Application · Syncing an Application

03

Using ArgoCD

TOPICS

The Reconciliation Loop · Application Health · Sync Strategies · Secret Management · Declarative Setup · Deploying with Helm · Deploying with Kustomize

04

Progressive Delivery

TOPICS

What is Progressive Delivery · Introduction to Argo Rollouts · Blue/Green with Argo Rollouts · Canaries with Argo Rollouts · Automated Rollbacks with Metrics · Using Argo Rollouts with Argo CD

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

ABOUT 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?

Talk to a learning advisor about schedules, group training and customised delivery.

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