KOENIG
step forward

KOENIG SOLUTIONS · COURSE OUTLINE

Helm in Depth

Learn to install, use and write Helm charts to manage and template Kubernetes applications.

1 Day	3	19
DURATION	MODULES	TOPICS

COURSE OVERVIEW

This course covers the fundamentals of Helm, including its installation, the differences between Helm2 and Helm3, and its core components. It then addresses working with Helm charts, customising chart parameters, and managing the chart lifecycle through upgrades and downgrades. Finally, it covers advanced chart authoring, including functions, pipelines, conditionals, with blocks, ranges, named templates and chart hooks, along with packaging, signing and uploading charts.

WHO THIS COURSE IS FOR

- **DevOps Engineers**
- **Kubernetes Administrators**
- **Platform Engineers**
- **Cloud Engineers**
- **Application Developers**

PREREQUISITES

- Kubernetes Knowledge is Required

LEARNING OBJECTIVES

- Explain what Helm is and describe its components
- Install Helm and distinguish between Helm2 and Helm3
- Apply Helm charts to deploy applications on Kubernetes
- Customise chart parameters to configure deployments
- Manage the chart lifecycle through upgrades and downgrades
- Write Helm charts using functions, pipelines and conditionals
- Implement named templates, ranges and chart hooks
- Package, sign and upload Helm charts

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.

COURSE SYLLABUS

3 Modules, 19 Topics

01

Introduction to Helm

TOPICS

What is Helm · Helm Installation · Difference between Helm2 and Helm3 · Helm Components

02

Working with Helm

TOPICS

Helm Charts · Working with Helm: Basics · Customizing Chart Parameters · Lifecycle Management with Helm · Upgrading and Downgrading Helm Chart

03

Helm Chart - Advance

TOPICS

- Writing a Helm Chart
- Functions
- Pipelines
- Conditionals
- With Blocks
- Ranges
- Named Templates
- Chart Hooks
- Packaging and Signing Charts
- Uploading Charts

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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