KOENIG SOLUTIONS · COURSE OUTLINE

Alerting with Prometheus

Learn to design, configure and manage alerts in Prometheus and Alertmanager, from alerting rules to notification routing.

9 MODULES

40 TOPICS

COURSE OVERVIEW

This course covers the philosophy and architecture behind Prometheus alerting, followed by the construction of alerting rules using expressions, the “for” field, labels and annotations. It addresses what to alert on, including SLO-based alerting and scrape health checks, and walks through configuring and inspecting example alerts. The course then moves into Alertmanager, covering its concepts and notification pipeline, configuring routes, receivers and inhibit rules, and setting up Alertmanager alongside a local Mattermost instance. It closes with using Alertmanager to view alerts and notifications, set silences, test inhibit rules and automate Alertmanager actions.

WHO THIS COURSE IS FOR

- **Site Reliability Engineers**
- **System Administrators**
- **DevOps Engineers**
- **Monitoring Engineers**
- **Infrastructure Engineers**

LEARNING OBJECTIVES

- Explain Prometheus alerting philosophy and architecture
- Build alerting rules using expressions, labels and annotations
- Apply the “for” field to control alert timing
- Identify what to alert on, including SLOs and scrape health
- Configure example alerting rules and inspect alerts in the UI
- Describe Alertmanager concepts and the notification pipeline
- Configure Alertmanager routes, receivers and inhibit rules
- Set up and use Alertmanager, including silences and automation

COURSE SYLLABUS

9 Modules, 40 Topics

01

Training Overview

TOPICS

Introduction · Prerequisites

02

Alerting Overview

TOPICS

Prometheus Alerting Philosophy · Alerting Architecture · Knowledge Check

03

Understanding Alerting Rules

TOPICS

Alerting Rules Overview · Alert Expressions · The “for” Field · Alert Labels · Adding Annotations · Knowledge Check

04

What to Alert On

TOPICS

General Recommendations · SLO-Based Alerting · Scrape Health Alerts · Knowledge Check

05

Configuring Example Alerts

TOPICS

Overview · Scraping the Demo Targets · Configuring Alerting Rules · Inspecting Alerts in the UI · Knowledge Check

06

Alertmanager Overview

TOPICS

Overview · Alertmanager Concepts · Notification Pipeline · Knowledge Check

07

Configuring Alertmanager

TOPICS

Configuration Overview · Configuring Routes · Configuring Receivers · Configuring Inhibit Rules · Knowledge Check

08

Setting Up Alertmanager

TOPICS

Overview · Setting Up a Local Mattermost · Setting Up the Alertmanager · Pointing Prometheus at Alertmanager · Knowledge Check

09

Using Alertmanager

TOPICS

Viewing Alerts in Alertmanager · Viewing Notifications in Mattermost · Setting Silences · Testing Inhibit Rules · Automating Alertmanager Actions · Knowledge Check

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.

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