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Alertmanager Training

2 days (14 hours)

Overview

Alertmanager is the alert management component of the Prometheus ecosystem, designed to route, aggregate, and deduplicate notifications, while managing silences and suppression.

Our Alertmanager training course will help you progress from basic usage to operational mastery of the key mechanisms for notification and alert handling.

You'll learn how to structure a routing tree, define receivers, use matchers, and set up grouping rules tailored to your monitoring needs.

The training also covers advanced configuration, notification templates, file validation, as well as best practices for production deployment and high availability.

By the end of this course, you'll be able to improve the reliability of your alert flows, reduce operational noise, and leverage Alertmanager within a robust observability architecture.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand Alertmanager's role in an observability chain.
- Build a consistent configuration for routing, grouping, and notifications.
- Implement silences and suppression rules.
- Adapt receivers and templates to business needs.
- Validate, test, and secure the operation of Alertmanager in a production environment.

Target Audience

- DevOps Engineer
- SRE Engineer
- System Administrator
- Monitoring Engineer
- Platform Developer

Prerequisites

- Basic knowledge of Prometheus and monitoring alerts.
- Proficiency with Linux and the command line.
- Basic understanding of YAML configuration formats.
- Understanding of Kubernetes or containerized environments is desirable.
- Prior experience in observability or application operations.

Technical Prerequisites

- A recent computer with sufficient memory to run a local test environment.
- A stable network connection (Wi-Fi or Ethernet) to access training resources.
- A terminal and a text editor compatible with YAML configuration files.
- A Docker or Docker Compose environment installed for hands-on exercises.
- An up-to-date web browser to use the Alertmanager interface and check notifications.

Alertmanager Training Course Outline

[Day 1 - Morning]

Fundamentals and

Architecture

- Alertmanager's role in the Prometheus monitoring chain.
- Understanding the lifecycle of an alert, from generation to notification.
- Principles of deduplication, grouping, and routing.
- Overview of the main components: receivers, routes, and suppressions.
- Reviewing a sample configuration and identifying key sections.
- Hands-on workshop: Analyzing a simple configuration and identifying the path taken by multiple alerts.

[Day 1 - Afternoon] **Basic**

Configuration

- Structure of the configuration file and YAML syntax rules.
- Defining the root route and child routes.
- Using matchers to target alerts.

- Configuring receivers and notification channels.
- Managing group, repeat, and send intervals.
- Hands-on workshop: Building an initial routing tree for multiple support teams.

[Day 2 - Morning]

Silences and Inhibition

- Understanding silence and suppression mechanisms.
- Use cases for reducing alert noise in production.
- Creating suppression rules based on labels and context.
- Managing temporary silences for maintenance or known incidents.
- Best practices for avoiding the unintentional masking of critical alerts.
- Hands-on workshop: Implementing silences and suppression rules on a simulated set of alerts.

[Day 2 - Afternoon] Notifications,

Testing, and Operations

- Customizing messages using templates.
- Validating the configuration and diagnosing common errors.
- Notification testing with amtool and functional checks.
- Principles of high availability and deployment in a live environment.
- Best practices for maintenance, operations, and alert monitoring.
- Hands-on workshop: testing a complete configuration, simulating an incident, and verifying end-to-end notifications.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Prerequisites for the training

The assessment conducted upon enrollment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technology, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth operation of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in

digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.