

Sela.

MonitorProm

Monitoring with Prometheus

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Monitoring with Prometheus

MonitorProm - Version: 1

 2 days Course

Description:

This intensive 2-day course offers a comprehensive overview of monitoring systems with a focus on Prometheus. Participants will gain hands-on experience in setting up, configuring, and managing Prometheus for effective monitoring and alerting.

Intended audience:

System administrators
DevOps engineers
IT professionals looking to enhance their monitoring capabilities

Prerequisites:

Basic knowledge of Linux/Unix systems.
Familiarity with command-line interfaces and system administration

Objectives:

Understand the key concepts of system monitoring and the role of Prometheus.
Learn to install, configure, and operate Prometheus in a practical environment.
Gain familiarity with Prometheus metrics, queries, and alerting mechanisms.
Explore Prometheus integration with visualization tools like Grafana.

Topics:



Introduction to Prometheus and Basic Setup

- Overview of System Monitoring
 - Importance and fundamentals of monitoring
 - Introduction to Prometheus: Architecture and components
- Setting Up Prometheus
 - Installation and basic configuration of Prometheus.
 - Understanding Prometheus metrics and jobs.
- Data Collection with Prometheus
 - Configuring Prometheus exporters.
 - Collecting and visualizing metrics.
- Prometheus Query Language (PromQL)
 - Basics of PromQL.
 - Writing and executing simple queries

Advanced Prometheus Features and Integrations

- Alerting with Prometheus
 - Setting up Alertmanager.
 - Creating and managing alert rules.
 - Understanding notification workflows
- Visualization and Dashboards
 - Introduction to Grafana.
 - Creating dashboards for Prometheus metrics.
- Prometheus in Production
 - Best practices for scaling and maintaining Prometheus.
 - High availability configurations
- Integrating Prometheus with Other Systems
 - Prometheus with Kubernetes: Basic concepts
 - Overview of Prometheus Operator