Grafana Training

COURSE CONTENT

About Multisoft

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About Course

Grafana is a powerful open-source platform for monitoring, observability, and data visualization. It enables users to create interactive, customizable dashboards by pulling data from various sources such as Prometheus, InfluxDB, Graphite, Elasticsearch, and many others. Grafana is widely used in DevOps, IT operations, and application performance monitoring (APM) to gain deep insights into infrastructure, systems, and business metrics.

Module 1: Introduction to Grafana Overview and User Interface

- ✓ Grafana Overview
- ✓ Grafana Features
- ✓ Grafana Architecture
- ✓ Grafana User Interface

Module 2: Grafana Installation

- ✓ Installing Grafana on Linux Server
- ✓ Installing Grafana Version 10 on a Linux Server
- ✓ Grafana on Windows: Installation and Management
- ✓ Starting, Stopping Grafana Services on Windows
- ✓ Installing Grafana on Docker

Module 3: Basics of Prometheus and Server Monitoring Dashboards

- ✓ Grafana Prometheus Architecture Overview
- ✓ Installing and Managing Prometheus
- ✓ Installing and Managing Node Exporter
- ✓ Grafana Dashboard to Monitor Servers

Module 4: Canvas Panel

- ✓ Running Automation Jobs from Canvas Panel
- ✓ Diagrams in Canvas Panel

Module 5: Telegraf and InfluxDB Datasource

- ✓ Installing and Managing InfluxDB
- ✓ Installing and Managing Telegraf Services

✓ Installing Telegraf and Sending Data to InfluxDB

✓ Using InfluxDB as a Datasource in Grafana

Module 6: Creating Grafana Dashboards

✓ Grafana User Interface Overview

✓ Grafana Dashboard – Server Health Summary Dashboard

✓ Graph Panel – CPU and Memory Utilization

✓ Graph Panel – Multiple Servers and Problem Statement to use Grafana Variables

✓ Custom Variable – Static Variable Values

✓ Query Variable – Dynamic Variable Values

✓ Automatic Repeat Panel Based on Variable Value

✓ Organizing Panels and Dashboards for Easy Management

✓ Repeat Row to Create Dynamic Grafana "Summary Dashboard"

✓ Fixing Y Axis' Minimum and Maximum Value in Graph Panel

✓ Creating Thresholds in Graph Visualizations

✓ Python Program to Increase Memory Utilization for Testing Purpose

✓ Advance Tabular Visualizations with Gauge in one column

✓ Advance Stat Visualization in Grafana 7

✓ Exploring More Visualization Properties – Legends, Axis, Series Override

✓ Creating Grafana Dashboard Using MySQL as Data Source

✓ Using Custom SQL Query to Create Dashboard

Module 7: Monitoring Webistes and Docker Services

✓ Monitoring Websites or URL using Grafana

✓ Monitor Docker Services

Module 8: Plugins and Alerting

✓ Installing Plugins and Creating Pie Chart Visualization

✓ Sending Email Alerts in Grafana

✓ Creating Alerts and Annotation in Dashboards in Grafana

✓ Grafana Email Alerts Configuration

Module 9: Users and Role Creation and Management in Grafana

✓ Managing Users
✓ Managing Roles