Mastering Grafana Monitoring Tool Training Course

19 – 23 September 2027
Accra

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Training Center

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Ref: 36340_96313 **Date:** 19 – 23 September 2027 **Location:** Accra **Fees:** 6000 Euro

Course Overview:

The course is for IT professionals and organizations aiming to improve monitoring using Grafana. It covers Grafana training, from an overview of its architecture to hands-on sessions such as a tutorial on the user interface and creating dashboards. Participants will learn to install Grafana on various environments, integrate Prometheus and InfluxDB, create dynamic dashboards, and set up email alerts for proactive monitoring. The course emphasizes real-world applications, including monitoring server health, managing users and roles, and creating advanced visualizations. Attendees will leave with a robust skill set for deploying and managing Grafana in different environments.

Target Audience:

- IT Managers
- System Administrators
- DevOps Engineers
- Data Analysts
- Cloud Engineers

Targeted Organizational Departments:

- IT Department
- Network Operations Center NOC
- Data Management and Analytics
- Cloud Operations
- Infrastructure Management

Targeted Industries:

- Information Technology
- Telecommunications
- Healthcare
- Financial Services
- Cloud Service Providers

Course Offerings:

By the end of this course, participants will be able to:

- Understand Grafana architecture and its user interface
- Install Grafana on Linux, Windows, and Docker environments
- Set up Prometheus and integrate it with Grafana
- Create and manage Grafana dashboards, including dynamic variables
- Configure InfluxDB as a datasource for Grafana
- Monitor servers, websites, and Docker services using Grafana
- Use advanced Grafana visualizations for better insights
- Manage users and roles within Grafana

Training Methodology:

This training course combines theory with hands-on exercises, including case studies, interactive sessions, and simulations to teach the application of Grafana in various environments. It covers practical labs for installing Grafana on Linux and Docker, building dashboards, and integrating data sources like Prometheus and InfluxDB. Group activities focus on creating effective visualizations and monitoring solutions, with feedback sessions tailored to participants' learning pace and challenges. This approach fosters a complete understanding of Grafana's capabilities in different use cases.

Course Toolbox:

- Course ebook
- Datasource configuration guides for Prometheus and InfluxDB
- Step-by-step setup instructions for Grafana plugins and integrations
- Online resources and cheat sheets for Grafana commands and queries
- Templates for common Grafana dashboards and reports

Course Agenda:

Day 1: Introduction to Grafana and Setup

- **Topic 1:** Grafana Overview and Key Features
- **Topic 2:** Understanding Grafana Architecture
- **Topic 3:** Navigating the Grafana User Interface
- **Topic 4:** Installing Grafana on Linux and Windows
- **Topic 5:** Managing Grafana Services Start, Stop, Restart
- **Topic 6:** Setting Up Grafana on Docker
- **Reflection & Review:** Review of Installation and Basic Interface Navigation

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Day 2: Data Integration and Server Monitoring

- **Topic 1:** Basics of Prometheus Integration with Grafana
- **Topic 2:** Installing and Managing Prometheus for Grafana
- **Topic 3:** Setting Up Node Exporter for Server Metrics
- **Topic 4:** Creating Basic Server Monitoring Dashboards
- **Topic 5:** Using Telegraf as a Data Collector
- **Topic 6:** InfluxDB as a Datasource for Grafana
- **Reflection & Review:** Challenges and Best Practices in Data Integration

Day 3: Advanced Dashboard Creation and Visualization

- **Topic 1:** Building Custom Grafana Dashboards for Data Analysis
- **Topic 2:** Using Variables for Dynamic Dashboard Management
- **Topic 3:** Graph Panel Setup for CPU and Memory Utilization Monitoring
- **Topic 4:** Canvas Panel: Running Automation Jobs and Custom Diagrams
- **Topic 5:** Advanced Visualization Techniques: Thresholds, Legends, and Series Overrides
- **Topic 6:** Creating MySQL-Based Dashboards with Custom SQL Queries
- **Reflection & Review:** Enhancing Visualization Techniques and Dashboard Customization

Day 4: Alerting, Plugins, and Website Monitoring

- **Topic 1:** Installing and Managing Grafana Plugins
- **Topic 2:** Setting Up Email Alerts and Configuring Notifications
- **Topic 3:** Creating Alerts and Annotations in Grafana Dashboards
- **Topic 4:** Monitoring Websites and URLs Using Grafana
- **Topic 5:** Docker Services Monitoring with Grafana
- **Topic 6:** Automating Reports and Visualizations in Grafana
- **Reflection & Review:** Effective Use of Alerts and Integrations in Grafana

Day 5: User Management, Security, and Optimization

- **Topic 1:** Managing Users and Roles in Grafana
- **Topic 2:** Role-Based Access Control RBAC in Grafana
- **Topic 3:** Optimizing Grafana Dashboards for Performance
- **Topic 4:** Python Integration for Data Analysis and Custom Scripts
- **Topic 5:** Advanced Tabular Visualization and Gauge Setup
- **Topic 6:** Best Practices for Long-Term Grafana Management and Maintenance
- **Reflection & Review:** Course Wrap-Up, Final Q&A, and Next Steps

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How This Course is Different from Other Grafana Training Courses:

This course focuses on real-world applications and provides hands-on training covering basic setup, advanced integration with data sources, and specialized sessions on using Grafana for Docker monitoring and integrating Python for custom analysis. Participants receive personalized guidance on creating dashboards, configuring alerts, and managing users and roles. The emphasis on practical labs ensures that attendees develop the skills needed to deploy and manage Grafana in dynamic environments, making it an ideal choice for professionals looking to master Grafana quickly.