

# Grafana

**Duration: 3 Days**

## **Module 1: 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 Websites 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