Prometheus Training

Duration: **25 Day**

BILGINC IT Academy
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Overview

You will master all the core fundamentals of Prometheus such as architecture, PromQL, Grafana, and much more through our hands-on training. You will also work on real-time projects during training which helps you in clearing the Prometheus certification exam.

Prerequisites

There are no particular prerequisites required for learning this course. Basic knowledge of the following is an added advantage.

- Linux
- Command prompt

To can also learn from ourself-paced videos on Linux.

Who Should Attend

The following is the list of job roles who gain benefit from learning this course:

- Software developers
- Network admins
- System administrators

What You Will Learn

Upon completion of this course, you'll be able to

- Understand Prometheus fundamentals.
- Run and monitor a machine
- Setup an alert in Prometheus
- Understanding PromQL
- Configure Prometheus
- Visualize the data in Grafana

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Outline

- **Introduction**
  - What is Prometheus?
- **Setting Up Your Environment**
  - Using Cloud Playground
  - Setting Up a Kubernetes Cluster
- **Prometheus Architecture**
  - Prometheus Architecture Diagram
  - Client Libraries
  - Exporters
  - Service Discovery
  - Scraping
- **Run Prometheus on Kubernetes**
  - Setting Up Prometheus
  - Configuring Prometheus
  - Setting Up Grafana
  - NodeExporter
  - Expression Browser
  - Adding a Grafana Dashboard
- **Application Monitoring**
  - Instrumenting Applications
  - Collecting Metrics from Applications
- **PromQL**
  - PromQL Basics
  - PromQL Operations and Functions
  - Recording Rules
- **Alerting**
  - Alertmanager
  - Alerting Rules