DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

# Prometheus With Grafana Essential Training

Instrument and scrape applications, query them with PromQL, and build well-designed Grafana panels and dashboards from several data sources.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**2 days · Days 1-2** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · Included | 2 days · This curriculum | 3 days · Next step | 5 days · Later |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 25 topics · Foundation to Essential |
| Hands-on labs | 2 labs |
| Formats and fees | Live, 1:1, self-paced, corporate |
| Trainer and reviews | Rajesh Kumar |
| Enrolment | Batches, payment, contacts |


## WHY DEVOPSSCHOOL

- Rated 4.6 on Google
- 1,500+ verifiable certificates issued in the public registry
- Trainer Rajesh Kumar: 20 years in industry
- Small batches: max 10 learners, every session recorded

**Course page:** www.devopsschool.com/courses/prometheus/prometheus-with-grafana-essential-training.html
**Talk to us:** WhatsApp +91 99057 40781 · +1 (469) 756-6329 · contact@DevOpsSchool.com · reply within 1 hour

OUTCOMES

# What you will achieve

By the end of the Prometheus With Grafana course path, you will be able to:

1

### Monitor with Prometheus and Grafana

Collect, query and visualise metrics from hosts, applications and cloud services.

2

### Alert and troubleshoot faster

Build alerting and correlated metrics, logs and traces dashboards that shorten incidents.

3

### Operate observability securely

Provision, secure and scale Prometheus and Grafana with SSO, permissions and HA.

WHAT THE ESSENTIAL LEVEL ADDS

### PromQL, exporters, data sources, panels and dashboards

**Hands-on:** Dashboard an instrumented application. Instrument a web service, scrape it with service discovery, and build a Grafana dashboard combining Prometheus and SQL data with thresholds and annotations.

WHO SHOULD ATTEND

- Learners who know the basics of Prometheus With Grafana and want to use it confidently every day.
- Professionals taking over Prometheus With Grafana work on a live project.
- Teams agreeing on a common way of working with Prometheus With Grafana.

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Install Prometheus and Grafana on any platform, connect them and build your first dashboard from live time series data.
- Basic computer skills and a laptop with a stable internet connection for the live sessions and labs.
- This curriculum includes every earlier level, so it is complete on its own.

AGENDA · FOUNDATION TO ESSENTIAL

# Prometheus With Grafana Essential Training agenda

25 topics. Each level builds on the one before it, so this curriculum lists every earlier level in full. Days are for corporate (day-wise) delivery; live online batches cover the same agenda in max 8-10 hours.

## DAY 1 — Foundation: Monitoring concepts, Prometheus and Grafana installation

Included from Foundation

1. Introduction to monitoring: metrics, logs and traces, white-box and black-box monitoring, the four golden signals
2. Introduction to Prometheus: pull model, time series data model, metric names and labels
3. Prometheus installation: release binaries, systemd unit, Docker image, prometheus.yml and node_exporter
4. Introduction to Grafana: what is Grafana, why do we need it, advantages and disadvantages of Grafana
5. Grafana compared with other tools: Kibana, Chronograf and vendor dashboards, and where each fits
6. How Grafana works: Grafana architecture, backend server, data source proxy, configuration database and plugins
7. Installation requirements: supported databases and browsers; install on Debian/Ubuntu and RPM-based Linux
8. Other platforms: install on Windows and macOS, run the Grafana Docker image and upgrade Grafana safely
9. Grafana with Prometheus installation: adding Prometheus as a data source and checking the connection
10. Getting started with Grafana and Prometheus: first dashboard, first panel and saving it
11. Time series concepts: time series dimensions, histograms and heatmaps and the Grafana glossary
12. First PromQL queries: instant and range vectors, label matchers and rate()

## DAY 2 — Essential: PromQL, exporters, data sources, panels and dashboards

**New at this level**

13. Client libraries: instrumenting Go, Python and Java applications with counters, gauges and histograms
14. Pushing metrics: the Pushgateway for batch jobs, grouping keys and when not to push
15. Querying: PromQL aggregation, binary operators, rate vs increase, histogram_quantile and recording rules
16. Service discovery: file_sd, DNS and Kubernetes discovery with relabel_configs
17. Exporters: blackbox_exporter probes, database exporters, the JMX exporter and textfile collector
18. SQL data sources: getting started with Grafana and MS SQL Server, plus PostgreSQL and MySQL data sources
19. Data sources in Grafana: add data source, Prometheus data source settings and the TestData source
20. Panels in Grafana: add a panel, the panel editor, queries, the calculations list and thresholds
21. Transformations, field options and overrides: joining, renaming and reshaping query results
22. Visualizations: time series, stat, gauge, bar chart, table, heatmap and logs panels
23. Inspect a panel and share query results: data, query and JSON inspection
24. Dashboards and Explore: annotations, dashboard folders, playlists, search, keyboard shortcuts and time range controls
25. Dashboard lifecycle: version history, share dashboard and share panel, export and import, the JSON model

PRACTICE

# Hands-on labs

You build these yourself during the course, guided by the trainer.

FOUNDATION

**Build your first host dashboard**

Install Prometheus, node_exporter and Grafana, connect them and build a dashboard showing CPU, memory, disk and network for a Linux host.

ESSENTIAL

**Dashboard an instrumented application**

Instrument a web service, scrape it with service discovery, and build a Grafana dashboard combining Prometheus and SQL data with thresholds and annotations.

HOW YOU CAN LEARN

## Formats and fees

The same agenda in four formats. Fees are in Indian rupees as of November 2026; the course page shows them in your currency.

| FORMAT | DURATION | WHAT YOU GET | FEE |
|---|---|---|---|
| **Live & interactive (online)** | Max 8-10 hours | Instructor-led public batch of max 10 learners with demos, labs, Q&A and assignment review. Weekday batches start on the 1st of every month, weekend batches on the first Saturday of every month. | **INR 34,999** |
| **1:1 live training (online)** | Max 8-10 hours, one-to-one | The same agenda, taught one-to-one by the trainer. Starts immediately, without waiting for the next batch; sessions planned around your working hours, at your pace. | **INR 99,999** |
| **Self-paced video** | 1-year LMS access | All four Prometheus With Grafana levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 2 days for this level | A private batch for your team, on demand. Foundation 1 day, Essential 2, Intermediate 3, Advanced 5 (cumulative). | **Quote on request** |

ASSESSMENT AND CERTIFICATE

Your progress is checked through hands-on labs and assignments at every level. On completion you receive a DevOpsSchool certificate of completion with a unique credential ID that anyone can verify at devopsschool.com/certificates.

INCLUDED WITH EVERY LIVE BATCH

- Every live session is recorded and stays in your LMS for a year.
- Can't attend your batch? Move to next month's batch.
- Free demo class before you pay.
- Free 10-15 minute call with an advisor or the trainer to check the course fits you.

YOUR TRAINER

## Learn from Rajesh Kumar

Principal Architect, trainer and mentor in DevOps, SRE, DevSecOps and platform engineering, with 20 years across 8+ software MNCs, including Staff DevOps/SRE Engineer for a leading Japanese mobile-payment platform and Principal DevOps Architect and Manager in Europe.

Profile: www.rajeshkumar.xyz · Videos: youtube.com/@TheDevOpsSchool

| | |
|---|---|
| **20** years in industry | **200+** corporate trainings |
| **10,000+** engineers mentored | **70+** organisations coached |

REVIEWS

## What learners say

Rated 4.6 on Google · more reviews at devopsschool.com/testimonials and in our video testimonials.

> “Rajesh is very good trainer. Rajesh was able to resolve our queries and question effectively. We really liked the hands-on examples covered during this training program.”
>
> Indrayani, India

> “The training was very useful and interactive. Rajesh helped develop the confidence of all.”
>
> Abhinav Gupta, Pune

START YOUR PROMETHEUS WITH GRAFANA TRAINING

## Join the next batch

Weekday batches start on the 1st of every month and weekend batches on the first Saturday of every month, with max 10 learners each. 1:1 training can start immediately; corporate batches run on demand. We reply within 1 hour.

Pay by UPI, credit and debit cards, net banking or PayPal. Before you pay, read our refund policy. All levels of this course: www.devopsschool.com/courses/prometheus/

ENROL OR RESERVE A SEAT
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**Next step after this level: Prometheus With Grafana Intermediate Training** - Alert on real problems with Prometheus and Grafana alerting, secure Prometheus, and correlate metrics, logs and traces in dynamic dashboards.