DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Prometheus With Grafana Advanced Training

Run Prometheus and Grafana for the enterprise with provisioning as code, SSO, permissions, Enterprise features, plugins and real use cases.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **5 days · Days 1-5**	SELF-PACED VIDEO **1-year LMS access**
BATCH SIZE **Max 10 learners**	NEXT BATCHES **1st of every month · weekends: first Saturday**	CERTIFICATE **Verifiable certificate of completion**

Foundation	Essential	Intermediate	Advanced
1 day · Included	2 days · Included	3 days · Included	5 days · This curriculum

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	53 topics · Foundation to Advanced
Hands-on labs	4 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-advance-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 ADVANCED LEVEL ADDS

Use cases, provisioning, authentication, enterprise and scale

Hands-on: Ship observability as code. Provision Prometheus, Grafana data sources, dashboards and alerts from Git, secure Grafana with OAuth and team permissions, and monitor a real web app.

WHO SHOULD ATTEND

- Experienced Prometheus With Grafana practitioners responsible for quality, security and scale.
- Senior engineers, architects and leads who design and troubleshoot Prometheus With Grafana solutions.
- Teams making Prometheus With Grafana an organisation-wide standard.

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Alert on real problems with Prometheus and Grafana alerting, secure Prometheus, and correlate metrics, logs and traces in dynamic dashboards.
- 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 ADVANCED

Prometheus With Grafana Advanced Training agenda

53 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

Included from Essential

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

DAY 3 — Intermediate: Alerting, security, logs, traces and dashboard variables

Included from Intermediate

26. Introduction to alerting: symptom-based alerts, setting up alerts with Prometheus alerting rules and promtool tests
27. Alertmanager: routing, grouping, inhibition, silences and receivers such as email, Slack and PagerDuty
28. Alerts in Grafana: Grafana-managed alert rules, create alerts, pause alert rule and view alerts
29. Alert notifications: contact points, notification policies, mute timings and troubleshooting alerts
30. Internals: Prometheus storage, TSDB head block, WAL, compaction and retention

31. Prometheus security: TLS and authentication on the Prometheus server with web.config.file
32. Mutual TLS for Prometheus targets: client certificates in tls_config for secure scraping
33. Other data sources: AWS CloudWatch, Google Cloud Monitoring, Azure Monitor, Graphite, InfluxDB and OpenTSDB
34. Logs data sources: Elasticsearch and Loki with LogQL queries
35. Tracing data sources: Jaeger, Tempo and Zipkin, correlating metrics, logs and traces in Explore
36. Dashboard variables: variable syntax, variable types, examples, selection options, value tags and advanced format options
37. Multi-value variables: filter variables with regex, repeat panels or rows
38. Linking: linking overview, dashboard links, panel links, URL variables and data links
39. Kubernetes monitoring: kube-prometheus-stack, ServiceMonitor resources and the bundled Grafana dashboards

DAYS 4-5 **Advanced: Use cases, provisioning, authentication, enterprise and scale** **New at this level**

40. Use case: monitoring a web application with RED metrics, latency histograms and error rates
41. Use case: calculating an Apdex score with PromQL from request latency histograms
42. Cloud use cases: the CloudWatch exporter and EC2 auto discovery with ec2_sd_configs
43. Consul integration with Prometheus: consul_sd_configs, service tags and health filtering
44. Grafana provisioning: data sources, dashboards and alerting as code in Git; scripted dashboards
45. Authentication in Grafana: overview, built-in authentication, auth proxy, LDAP and enhanced LDAP integration
46. OAuth authentication: Google, Microsoft Entra ID (Azure AD), GitHub, GitLab and Okta OAuth2, plus SAML authentication
47. Manage users: add, remove, enable and disable users, teams, team sync and organization roles
48. Permissions: dashboard and folder permissions, data source permissions and role-based access control
49. Grafana Enterprise: license expiration, enterprise configuration, auditing, usage insights, Vault and white-labeling
50. Reporting: scheduled reports and export dashboard as PDF
51. Plugins: install plugins with grafana cli, plugin signatures and panel, data source and app plugins
52. Scale and HA: HA Prometheus pairs with Thanos or Mimir, Grafana HA with a shared database
53. Capstone: deliver a provisioned, SSO-secured observability stack for a multi-service application

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.

INTERMEDIATE

Build an alerting and troubleshooting workflow

Create Prometheus and Grafana alerts routed to Slack, then build a variable-driven dashboard that links metrics to Loki logs and Tempo traces.

ADVANCED

Ship observability as code

Provision Prometheus, Grafana data sources, dashboards and alerts from Git, secure Grafana with OAuth and team permissions, and monitor a real web app.

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)	5 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/

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