DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Influxdb Advanced Training

Scale InfluxDB for high volume and availability, tune performance, plan retention and backups and migrate between versions.

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	46 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/influxdb/influxdb-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 Influxdb course path, you will be able to:

1

Model time series data

Design measurements, tags and fields that keep InfluxDB fast and storage efficient.

2

Ingest, query and visualize

Collect data with Telegraf and APIs, query it with SQL, InfluxQL or Flux and build Grafana dashboards.

3

Operate InfluxDB at scale

Secure, monitor, back up, cluster and tune InfluxDB deployments with automated downsampling.

WHAT THE ADVANCED LEVEL ADDS

Clustering, scale, performance tuning and migration

Hands-on: High-volume time series platform. Design a multi-node InfluxDB deployment for a high-volume telemetry workload, load test it, tune cardinality and queries and plan a version migration.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Automate downsampling and processing, secure InfluxDB, alert on conditions and back up and monitor your deployment.
- 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

Influxdb Advanced Training agenda

46 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: Time series concepts, installation and data model

Included from Foundation

1. Introduction to InfluxDB: overview of time series databases and their significance for metrics, IoT and events
2. Introduction to InfluxDB and its features: InfluxDB 1.x, 2.x and InfluxDB 3 Core and Enterprise compared
3. Understanding the use cases of InfluxDB: infrastructure monitoring, IoT sensors and real-time analytics
4. InfluxDB installation and setup: installing on various platforms (Linux, Windows, Docker) and InfluxDB Cloud
5. Configuring InfluxDB: configuration options, data directories, object storage settings and ports
6. Exploring the InfluxDB user interface and command-line tools: influxdb3 and influx CLIs and the web UI
7. InfluxDB data modeling: understanding the data model of databases and buckets, measurements and series
8. Measurements, tags, fields and timestamps: defining each and how they are stored
9. Line protocol: measurement, tag set, field set, timestamp and write precision
10. Access basics: API tokens, organizations and databases or buckets
11. First writes and queries: writing line protocol from the CLI and querying it back with SQL

DAY 2 — Essential: Schema design, ingestion, query languages and Grafana

Included from Essential

12. Designing schemas for efficient data storage and retrieval: tag versus field choices and series cardinality
13. Data ingestion via the HTTP API: v3 and v2 write endpoints and client libraries for Python, Go and Java
14. Telegraf: input and output plugins, agent configuration and collecting system and application metrics
15. Command-line ingestion: CSV and line protocol files, batching and write precision
16. Retrieving data with SQL: SELECT, time-range WHERE clauses, GROUP BY and date_bin
17. Retrieving data with InfluxQL: SELECT, GROUP BY time(), FILL and SHOW commands
18. Flux query language: from, range, filter and aggregateWindow, and its maintenance status in newer versions
19. Filtering, aggregating and transforming data in queries: windows, percentiles, joins and pivots
20. Data visualization with Grafana: integrating InfluxDB with Grafana using SQL, InfluxQL or Flux
21. Grafana dashboards: creating dashboards and panels to display time series data
22. Customizing visualizations and using advanced features of Grafana: variables, transformations and alerts

DAY 3 — Intermediate: Downsampling, processing, security, alerting and backup

Included from Intermediate

23. Continuous queries and downsampling: understanding their role in InfluxDB 1.x and creating CQs to aggregate data
24. Retention policies: configuring retention to manage data storage and expiration and shard group durations
25. Tasks in InfluxDB 2.x: scheduled Flux tasks with every and cron for downsampling
26. InfluxDB 3 processing engine: Python plugins triggered by writes, schedules and HTTP requests
27. InfluxDB 3 caches: last value cache and distinct value cache for fast queries
28. InfluxDB security and authentication: implementing security measures and access control for users and roles
29. Enabling SSL/TLS encryption: secure communication with clients, Telegraf and the UI
30. InfluxDB alerts and monitoring: setting up alerts based on threshold conditions or anomaly detection

31. Integrating InfluxDB with alerting mechanisms like Kapacitor: TICKscripts and alert handlers
32. Monitoring InfluxDB: performance and health using built-in tools or external solutions such as Telegraf and Grafana
33. Backup and restore: influxd and influx backup and restore commands and object storage snapshots
34. Automation: managing databases, tokens and writes from CI pipelines with the API and client libraries

DAYS 4-5 **Advanced: Clustering, scale, performance tuning and migration** New at this level

35. InfluxDB high availability and scalability: configuring HA setups using InfluxDB Enterprise clustering
36. InfluxDB 3 Enterprise multi-node: ingest, query and compactor node roles and read replicas
37. Cluster data distribution: understanding replication factors, sharding and data distribution in clusters
38. Scaling InfluxDB: handling large data volumes and increased query throughput
39. InfluxDB performance optimization: best practices for batching writes, cardinality control and query design
40. Tuning storage engine parameters and configuration settings: TSM and TSI, Parquet files and compaction
41. Monitoring and troubleshooting performance issues: slow queries, high cardinality and memory pressure
42. InfluxDB best practices: schema design, data retention and backup strategies at scale
43. Exploring advanced features: Kapacitor functions, task scheduling and user-defined processing
44. Migration: moving from InfluxDB 1.x or 2.x to InfluxDB 3 with InfluxQL compatibility and data export
45. Real-world use cases: best practices shared by practitioners in DevOps, IoT and industrial telemetry
46. Hands-on project and Q&A: engaging in a project to apply the concepts, Q&A, key takeaways and next steps

PRACTICE

Hands-on labs

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

FOUNDATION **Install InfluxDB and store metrics**
Run InfluxDB in Docker, create a database and token, write server metrics in line protocol and query them back from the CLI.

ESSENTIAL **Collect, query and visualize metrics**
Collect host and Docker metrics with Telegraf, query them with SQL and InfluxQL and build a Grafana dashboard with variables.

INTERMEDIATE **Downsampling, security and alerting**
Add downsampling with a processing engine plugin or task, enable TLS and scoped tokens, alert on threshold breaches and take and restore a backup.

ADVANCED **High-volume time series platform**
Design a multi-node InfluxDB deployment for a high-volume telemetry workload, load test it, tune cardinality and queries and plan a version migration.

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 Influxdb 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 INFLUXDB 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/influxdb/

ENROL OR RESERVE A SEAT **Influxdb Advanced Training**	WHATSAPP · INDIA **+91 99057 40781**
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