DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Bosun Advanced Training

Run Bosun at production scale with tuned checks, a standby plan, alert governance and a clear migration path to newer alerting stacks.

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	45 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/bosun/bosun-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 Bosun course path, you will be able to:

1

Write expression-based alerts

Build Bosun alerts that combine queries, baselines and lookups to catch real problems with few false alarms.

2

Operate the alert workflow

Run acknowledgements, silences, escalations and API automation so on-call teams act on the right alerts.

3

Scale and govern monitoring

Size the time-series backend, harden Bosun and plan a governed path to newer alerting platforms.

WHAT THE ADVANCED LEVEL ADDS

Scale, availability, governance and migration

Hands-on: Production monitoring capstone. Design and implement a Bosun setup for a multi-tier application with capacity forecasts, escalation chains, a standby plan and a migration assessment.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Reduce alert noise, automate silences and custom metrics through the Bosun API, secure the server and troubleshoot failing checks.
- 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

Bosun Advanced Training agenda

45 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: Architecture, installation and first alert

Included from Foundation

1. Monitoring concepts: metrics, time series, tags, thresholds and why Bosun uses expression-based alerting
2. Bosun architecture: Bosun server, scollector agents, tsdbrelay, OpenTSDB on HBase and the Redis state store
3. Supported backends: OpenTSDB, Graphite, InfluxDB and Elasticsearch query functions in one expression language
4. Installing Bosun: release binary or container image, bosun.toml system settings and the rule file location
5. Installing scollector: Linux and Windows agents, sending to Bosun or OpenTSDB, verifying metrics arrive
6. Web UI tour: Items, Graph, Expression, Rule Editor and Dashboard pages
7. Metric naming and tags: os.cpu, os.mem.used, host tag and designing tag keys with low cardinality
8. First expression: q() query syntax with aggregator, metric, tags, relative start and end times
9. Reduction functions: avg, last, min, max, sum and percentile to turn series into numbers
10. First alert: warn and crit expressions, $variables and viewing alert state on the dashboard

DAY 2 — Essential: Rule files, notifications and alert workflow

Included from Essential

11. Rule file structure: alert, notification, lookup, macro and message body sections
12. Expression language: arithmetic, comparisons and the difference between series, number and scalar results
13. Baseline functions: change, diff, band, over and window for week-over-week and historical comparisons
14. Alert keywords: warnNotification, critNotification, runEvery, ignoreUnknown and unjoinedOK
15. Notifications: SMTP email settings, HTTP post webhooks and chat integrations through post bodies
16. Alert messages: subject and body written in Go text and HTML rendering syntax using .Eval, .Graph and .Last
17. Lookups and macros: per-host or per-service thresholds and reusable alert snippets
18. Testing rules: Rule Editor test runs against past time ranges and the alert timeline view
19. Incident workflow: acknowledge, close and forget alerts from the dashboard with history
20. Silences: maintenance windows by tag set, duration and the forget option
21. scollector configuration: scollector.toml, enabling collectors, custom tags, process and service monitoring
22. Graph page: building graphs from expressions and embedding graphs in notifications

DAY 3 — Intermediate: Noise control, automation, API and troubleshooting

Included from Intermediate

23. Unknown and missing data: unknown state, depends and squelch to suppress noisy or dependent alerts
24. Escalation: chained notifications with next and timeout, and repeat intervals for unacknowledged alerts
25. Log-style alerts: log and maxLogFrequency for event conditions that should notify on every occurrence
26. Custom metrics: posting data to /api/put, scollector external collectors and consistent tagging
27. tsdbrelay: relaying writes to Bosun and OpenTSDB, fan-out to secondary clusters and denormalization
28. Bosun HTTP API: querying alerts and expressions, creating silences automatically from deployment pipelines
29. Rules as code: keeping the rule file in Git, review workflow and saving from the Rule Editor with a commit hook
30. Annotations: recording deployments and incidents on graphs with Elasticsearch-backed annotation storage

31. Other backends in expressions: Elasticsearch log counts and InfluxDB application metrics
32. Securing Bosun: authentication with LDAP or tokens, TLS behind a reverse proxy and read-only users
33. State store operations: Redis persistence, backups and moving from the embedded ledis store
34. Troubleshooting: Bosun and scollector logs, expression errors, slow OpenTSDB queries and missing data

DAYS 4-5 **Advanced: Scale, availability, governance and migration** — **New at this level**

35. Scaling OpenTSDB and HBase: tag cardinality limits, salting, compactions and region server sizing
36. Check load tuning: runEvery per alert, efficient queries, downsampling and expression caching
37. Availability design: standby Bosun instance, Redis replication and a tested failover runbook
38. Forecasting and anomalies: forecastlr for capacity alerts and band-based anomaly detection
39. Multi-environment rule files: macros and lookups per datacenter, staging versus production rules
40. Incident tool integration: PagerDuty or Opsgenie via HTTP post and Grafana dashboards on Bosun data
41. Alert governance: ownership tags, runbook links in message bodies, alert reviews and noise metrics
42. Security hardening: TLS everywhere, restricted API access, secrets handling in bosun.toml
43. Self-monitoring: tracking check duration, notification failures and scollector health
44. Migration planning: mapping Bosun alerts and lookups to Prometheus Alertmanager or Grafana Alerting rules
45. Capstone: design a monitored production estate with tiered alerts, escalation and documented runbooks

PRACTICE

Hands-on labs

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

FOUNDATION

Build a host CPU and memory alert

Install Bosun and scollector on a lab VM, graph CPU and memory metrics, then write an alert with warn and crit thresholds and watch it fire.

ESSENTIAL

Create a team rule file with notifications

Write a rule file with lookups, a macro and email plus webhook notifications, test it against last week's data and silence a host during maintenance.

INTERMEDIATE

Automate silences from a deploy pipeline

Push custom application metrics through the API, add an escalating alert with dependencies and create silences automatically from a CI deployment job.

ADVANCED

Production monitoring capstone

Design and implement a Bosun setup for a multi-tier application with capacity forecasts, escalation chains, a standby plan and a migration assessment.

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 Bosun 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 BOSUN 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/bosun/

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Bosun Advanced Training

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