DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Elastic Logstash Kibana ELK Advanced Training

Design and tune a large-scale, highly available ELK platform with lifecycle tiers, hardened security and real-world projects.

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	51 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/elastic/elastic-logstash-kibana-elk-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 Elastic Logstash Kibana ELK course path, you will be able to:

1

Ingest any log source

Collect, parse and enrich logs from files, syslog, databases and applications with Logstash and Beats.

2

Turn logs into insight

Search, visualize and alert on log data with Kibana Discover, Lens, dashboards and rules.

3

Operate ELK at scale

Secure, troubleshoot, scale and upgrade a production ELK platform with high availability.

WHAT THE ADVANCED LEVEL ADDS

Scalable architecture, performance, HA and real projects

Hands-on: Centralized logging for microservices. Build a multi-node, tiered ELK platform fed through Kafka and Logstash for a microservices app, with ILM, field-level security and an anomaly detection job.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Add alerting, integrate ELK with other tools, secure users and indices and diagnose problems in Elasticsearch, Logstash and Kibana.
- 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

Elastic Logstash Kibana ELK Advanced Training agenda

51 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: ELK concepts, installation and first data

Included from Foundation

1. Introduction to ELK Stack: overview of Elasticsearch, Logstash and Kibana and how data flows between them
2. Use cases and applications of ELK Stack: log analytics, application monitoring, security analytics and site search
3. Comparison with other log management tools: Splunk, Graylog, Grafana Loki and OpenSearch
4. Elastic Stack 8.x and 9.x today: security on by default, Beats and Elastic Agent, self-managed versus Elastic Cloud
5. Setting up the environment for Elasticsearch: bundled JDK, heap size, vm.max_map_count and file descriptors
6. Installing Elasticsearch on different operating systems: Windows zip, macOS tar.gz, Linux deb and rpm, Docker
7. Configuring Elasticsearch cluster and nodes: elasticsearch.yml, cluster.name, node.name, network.host, discovery.seed_hosts
8. Installing and configuring Kibana: kibana.yml, enrollment token, connecting to Elasticsearch, first login
9. Overview of Kibana and its features: Discover, Dashboards, Lens, Dev Tools console and Stack Management
10. Creating and managing indices: index settings, shards, replicas, listing and deleting indices
11. Indexing and updating documents: PUT and POST _doc, partial updates with _update, _bulk loading
12. Searching data with basic queries: match, term and range queries and KQL in Discover
13. Introduction to Logstash: overview of its components (inputs, filters, outputs) and a first stdin to stdout pipeline

DAY 2 — Essential: Logstash pipelines, Kibana visualizations and dashboards

Included from Essential

14. Setting up a Logstash pipeline: configuring Logstash to process and transform data, pipelines.yml, auto reload
15. Configuring Logstash inputs for different data sources: file, syslog, beats, jdbc database and http
16. Applying filters for transformation and enrichment: grok, dissect, mutate, date, geoip and translate
17. Logstash outputs: elasticsearch output with index naming and data streams, stdout rubydebug for debugging
18. Ingesting log data into Elasticsearch using Logstash: hands-on with Nginx and application log files
19. Searching data using advanced queries: bool, multi_match, wildcard and aggregations in the Query DSL
20. Exploring and analyzing data using Kibana Discover: data views, field statistics, filters and saved searches
21. Kibana Lens: drag-and-drop analysis, breakdowns, formulas and quick chart switching
22. Creating and managing Kibana visualizations: bar, line, area, pie, metric, table and map charts
23. Building and managing dashboards: panels, controls, time filters, drilldowns and sharing links
24. Visualizing and analyzing data in Kibana: hands-on dashboard for web traffic, errors and response times
25. Exploring different visualization options and plugins: TSVB, Vega, Maps and Canvas
26. Using ELK for log analysis and application monitoring: error spikes, slow requests and log correlation

DAY 3 — Intermediate: Alerting, integrations, security and troubleshooting

Included from Intermediate

27. Setting up alerts and notifications using ELK Stack: Kibana rules, Elasticsearch query rules, email, Slack and webhook connectors
28. Integrating ELK Stack with other tools and platforms: Filebeat, Metricbeat, Elastic Agent, Kafka and Kubernetes
29. Exploring different indexing and search APIs: _bulk, _reindex, _update_by_query, _count, _msearch and scroll

30. Exploring different Logstash plugins and APIs: logstash-plugin install, node stats and pipeline monitoring APIs
31. Exploring Kibana plugins and APIs: saved objects import and export, Spaces and the Kibana REST API
32. Securing ELK Stack using X-Pack security: overview of the built-in security features, TLS and built-in users
33. Setting up authentication and authorization for ELK Stack: native and LDAP realms, roles, role mappings and API keys
34. Implementing security for Elasticsearch indices and Kibana visualizations: index privileges, Spaces and feature privileges
35. Exploring different X-Pack plugins and APIs: security, monitoring, alerting and machine learning APIs
36. Index lifecycle basics: composable index settings, rollover, retention and data streams for logs
37. Best practices for monitoring and maintaining ELK Stack: Stack Monitoring, cluster health, snapshots and housekeeping
38. Debugging and fixing issues with Elasticsearch, Logstash and Kibana: unassigned shards, grok failures, connection errors

DAYS 4-5 **Advanced: Scalable architecture, performance, HA and real projects** — New at this level

39. Best practices for scaling ELK for large-scale deployments: master, data, ingest and coordinating node roles
40. Designing and implementing scalable ELK Stack architecture: hot, warm, cold and frozen data tiers
41. Optimizing ELK Stack for performance: shard sizing, bulk size, refresh_interval, Logstash workers and batch size
42. Optimizing ELK Stack for availability: replicas, allocation awareness, multiple Logstash nodes and Kafka buffering
43. Logstash resilience: persistent queues, dead letter queue and back-pressure handling
44. Data lifecycle at scale: ILM policies, searchable snapshots and snapshot lifecycle management
45. Implementing advanced security features for ELK Stack: field- and document-level security, audit logging, SAML SSO
46. Cross-cluster search and replication: multi-region queries and follower indices for disaster recovery
47. Machine learning on logs: anomaly detection jobs, log rate analysis and pattern analysis
48. Running ELK on Kubernetes: Elastic Cloud on Kubernetes (ECK) operator and Elastic Cloud deployments
49. Upgrades and migration: rolling upgrades to 8.x and 9.x, Upgrade Assistant, moving Beats to Elastic Agent
50. Working on real-world projects and use cases with ELK Stack: centralized logging for a microservices application
51. Solving complex problems and challenges: mapping explosions, hot shards, ingest lag and capacity incidents

PRACTICE

Hands-on labs

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

FOUNDATION

Stand up a single-node ELK stack

Install Elasticsearch and Kibana, index and search a small demo dataset from Dev Tools, then run a first Logstash pipeline that prints parsed events.

ESSENTIAL

Parse web logs into a dashboard

Write a Logstash pipeline with grok, date and geoip filters for Nginx logs, then build a Kibana dashboard of traffic, status codes and visitor locations.

INTERMEDIATE

Secure and alert on the stack

Create roles and Spaces for a dev and an ops team, add an alert that posts error spikes to Slack and fix a broken Logstash grok pattern using its monitoring API.

ADVANCED

Centralized logging for microservices

Build a multi-node, tiered ELK platform fed through Kafka and Logstash for a microservices app, with ILM, field-level security and an anomaly detection job.

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 Elastic Logstash Kibana ELK 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 ELASTIC LOGSTASH KIBANA ELK 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/elastic/

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