DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

DevOps Advanced Training

Scale DevOps across an organisation with SRE practices, an internal developer platform, a secure supply chain and a measured transformation roadmap.

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	50 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/devops/devops-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 DevOps course path, you will be able to:

1

Apply DevOps principles

Use DevOps culture, flow and DORA metrics to improve how your team delivers software.

2

Automate secure delivery

Build CI/CD, GitOps and DevSecOps pipelines from commit to Kubernetes production.

3

Scale reliable platforms

Run SRE practices, platform engineering and supply chain security across an organisation.

WHAT THE ADVANCED LEVEL ADDS

SRE, platform engineering, supply chain and transformation

Hands-on: Capstone: golden-path delivery platform. Build a Backstage golden path that scaffolds a service with signed images, policy checks, GitOps delivery and SLO dashboards, then run a chaos game day against it.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Add monitoring, alerting and security scanning to your delivery flow, deploy through GitOps with progressive delivery and handle incidents well.
- 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

DevOps Advanced Training agenda

50 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: DevOps culture, flow metrics and first pipeline

Included from Foundation

1. Why DevOps: silos, the wall of confusion between dev and ops, business outcomes and a short history
2. CALMS and the Three Ways: culture, automation, lean, measurement, sharing; flow, feedback and continual learning
3. Value stream mapping: lead time, process time, handoffs, queues and waste in software delivery
4. DORA metrics: deployment frequency, lead time for changes, change failure rate and time to restore
5. Agile foundations for DevOps teams: Scrum and Kanban, WIP limits and small batch sizes
6. Team Topologies: stream-aligned, platform, enabling and complicated-subsystem teams
7. DevOps lifecycle and toolchain map: plan, code, build, test, release, deploy, operate and monitor
8. Linux essentials for DevOps: shell navigation, files and permissions, processes, packages and SSH
9. Networking essentials: IP addressing, DNS, HTTP and HTTPS, ports and load balancers, curl and dig
10. Branching concepts: trunk-based development versus GitFlow and why short-lived branches win
11. CI/CD concepts: continuous integration, delivery versus deployment, pipelines as code and artifacts
12. Cloud and infrastructure as code concepts: IaaS, PaaS, SaaS, immutable infrastructure, declarative versus imperative
13. First pipeline: a GitHub Actions workflow that builds and tests a small app on every push

DAY 2 — Essential: CI/CD pipelines, testing, containers and Kubernetes basics

Included from Essential

14. GitHub Actions in depth: jobs, matrix builds, caching, artifacts, environments and reusable workflows
15. GitLab CI/CD: .gitlab-ci.yml stages, runners, rules, includes and merge request pipelines
16. Test automation strategy: test pyramid, unit, integration and contract tests running in the pipeline
17. Versioning and artifacts: semantic versioning, changelogs and Nexus, Artifactory or GitHub Packages
18. Containers for delivery: multi-stage Dockerfiles, image tags by commit SHA and registry push
19. Kubernetes for app teams: pods, deployments, services, ConfigMaps, Secrets and kubectl basics
20. Helm charts: chart structure, values per environment, upgrades and rollbacks
21. Infrastructure as code in pipelines: OpenTofu or Terraform plan on pull request, apply on merge
22. Configuration and secrets: twelve-factor config, environment variables and a managed secret store
23. Code quality: linters, formatters, pre-commit hooks and SonarQube quality gates
24. Collaboration: pull request reviews, CODEOWNERS and ChatOps notifications
25. Environments and approvals: dev, staging and production promotion with manual gates and feature flags

DAY 3 — Intermediate: Observability, DevSecOps, GitOps and incident response

Included from Intermediate

26. Observability: metrics, logs and traces with Prometheus, Grafana, Loki and OpenTelemetry
27. Alerting and on-call: Alertmanager rules, routing to PagerDuty or Slack and runbooks
28. DevSecOps scanning: SAST with CodeQL or Semgrep, dependency updates with Dependabot or Renovate, DAST with ZAP

29. Container security: Trivy image scans, minimal base images and non-root containers
30. Secrets management: HashiCorp Vault, External Secrets Operator and OIDC keyless access from CI to cloud
31. GitOps delivery: Argo CD applications, automated sync and environment repositories
32. Progressive delivery: canary and blue-green releases with Argo Rollouts or Flagger and feature flags
33. Database changes: Flyway or Liquibase in pipelines and expand-and-contract migrations
34. Kubernetes operations: resource requests, probes, HPA autoscaling, namespaces and RBAC
35. Configuration management for VMs: Ansible playbooks alongside container workloads
36. Incident management: severity levels, incident commander role, communication and blameless postmortems
37. Pipeline performance: caching, parallel jobs, self-hosted runners and flaky test quarantine
38. Troubleshooting deployments: kubectl describe, logs and events, failed pipeline analysis and rollbacks

DAYS 4-5 **Advanced: SRE, platform engineering, supply chain and transformation** **New at this level**

39. Site reliability engineering: SLIs, SLOs, error budgets, burn-rate alerts and toil reduction
40. Platform engineering: internal developer platform, Backstage portal, golden paths and self-service environments
41. Software supply chain security: SBOMs with Syft, signing with Sigstore cosign, SLSA provenance and admission policies
42. Policy as code and compliance: OPA and Kyverno rules, audit evidence from pipelines, SOC 2 and ISO 27001 mapping
43. High availability delivery: multi-cluster and multi-region deployments, failover and disaster recovery drills
44. Chaos engineering: LitmusChaos or Chaos Mesh experiments and game days
45. FinOps for DevOps: cost per team and service with OpenCost, rightsizing and budgets in pipelines
46. CI/CD at scale: monorepo build strategies, remote caching and ephemeral runners on Kubernetes
47. AI in DevOps: AI-assisted coding and review, AIOps alert correlation and guardrails for agents
48. Measuring transformation: DORA plus SPACE metrics, maturity assessment and improvement roadmaps
49. Legacy modernisation: strangler fig pattern, containerising monoliths and cloud migration waves
50. Capstone: design and demo a platform with golden-path pipelines, SLOs, signed artifacts and cost reports

PRACTICE

Hands-on labs

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

FOUNDATION **Map a value stream, automate builds**

Map your team's delivery value stream with DORA baselines, then create a GitHub Actions workflow that builds and tests a demo service on every push.

ESSENTIAL **Pipeline from commit to Kubernetes**

Build a pipeline that tests, scans, versions and containerises a service, then deploys it with Helm to staging and, after approval, to production.

INTERMEDIATE **Secure GitOps release with monitoring**

Add security scans and Vault secrets to the pipeline, deliver the service through Argo CD as a canary, and wire metrics, traces and alerts for a simulated incident.

ADVANCED

Capstone: golden-path delivery platform

Build a Backstage golden path that scaffolds a service with signed images, policy checks, GitOps delivery and SLO dashboards, then run a chaos game day against it.

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 DevOps 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 DEVOPS 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/devops/

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