DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Noops Advanced Training

Design a governed NoOps platform with multi-account guardrails, multi-region resilience, AIOps and cost controls for many teams.

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	47 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/noops/noops-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 Noops course path, you will be able to:

1

Remove manual operations work

Identify operational toil and replace it with managed services, pipelines and automated remediation.

2

Run serverless in production

Deploy, observe and troubleshoot event-driven serverless applications on the major clouds.

3

Govern automation at scale

Apply guardrails, cost controls and SLO-based operations across many teams and accounts.

WHAT THE ADVANCED LEVEL ADDS

Scale, governance, AIOps and platform design

Hands-on: Build a governed NoOps platform. Design a multi-account landing zone with SCPs, budgets and a self-service golden path, then deploy a multi-region service with automated failover.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Automate recovery and remediation, secure functions with least privilege and trace failures across managed services.
- 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

Noops Advanced Training agenda

47 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: NoOps concepts, managed platforms and first deploy

Included from Foundation

1. NoOps defined: origins, NoOps vs DevOps vs platform engineering, which operations work disappears and which remains
2. Operational toil: the SRE definition of toil, measuring manual work and choosing what to automate first
3. Building blocks: serverless functions, managed databases, PaaS, managed Kubernetes and SaaS observability
4. Shared responsibility: what AWS, Azure and Google Cloud operate for you versus what your team still owns
5. Serverless compute basics: AWS Lambda, Azure Functions and Google Cloud Run, triggers, cold starts and limits
6. Managed data services: DynamoDB, Aurora Serverless v2, Azure Cosmos DB and Firestore, and when to use each
7. Infrastructure as code for NoOps: declarative stacks with AWS SAM, OpenTofu or Terraform, and Pulumi
8. Pipelines as the only path to production: Git-based change, automated deploys and no manual console edits
9. Environment setup: cloud account, aws, az or gcloud CLI, IAM roles, budgets and billing alerts
10. First deployment: sam init, sam build and sam deploy for a function behind an HTTP endpoint
11. Limits of NoOps: vendor lock-in, cost surprises, compliance duties and debugging across managed services

DAY 2 — Essential: Everyday serverless delivery and managed operations

Included from Essential

12. Event-driven design: API Gateway, EventBridge, SQS, SNS, Pub/Sub and Event Grid as triggers
13. Serverless APIs: routing, request validation, authorizers, throttling and custom domains
14. Configuration and secrets: environment variables, SSM Parameter Store, Secrets Manager and Azure Key Vault
15. Managed containers: AWS Fargate, Google Cloud Run and Azure Container Apps for workloads that do not fit functions
16. Pipeline automation: GitHub Actions or GitLab CI building, testing and deploying serverless stacks
17. Environments: separate dev, staging and production stacks and short-lived preview stacks per pull request
18. Built-in observability: CloudWatch Logs and metrics, AWS X-Ray, Application Insights and structured JSON logs
19. Testing: unit tests with mocks, local emulation with sam local and LocalStack, integration tests in the cloud
20. Deployment safety: function versions, aliases, traffic shifting and canary or linear deploys
21. Cost basics: pay-per-use pricing, memory and duration tuning with AWS Lambda Power Tuning, cost tags
22. Static and storage hosting: S3 with CloudFront, Azure Static Web Apps and Firebase Hosting
23. Team workflow: trunk-based development, review gates and service ownership through CODEOWNERS

DAY 3 — Intermediate: Self-healing, remediation, security and troubleshooting

Included from Intermediate

24. Self-healing infrastructure: health checks, auto scaling, instance replacement and Kubernetes probes
25. Automated remediation: EventBridge rules that run Lambda functions or SSM Automation runbooks on alarms
26. Policy as code: AWS Config rules, Azure Policy and OPA or Conftest checks inside pipelines
27. GitOps for managed Kubernetes: Argo CD or Flux syncing EKS, AKS or GKE Autopilot clusters
28. Security automation: least-privilege IAM per function, IAM Access Analyzer, dependency and image scanning in CI
29. Credentials without humans: secret rotation and short-lived cloud access through OIDC federation from CI

30. Alerting that pages less: SLO-based alerts, composite alarms and routing to PagerDuty or Jira Service Management
31. Distributed tracing: OpenTelemetry instrumentation for functions and the AWS Distro for OpenTelemetry
32. Troubleshooting serverless: timeouts, throttling, concurrency limits, retries, dead-letter queues and idempotency
33. Workflow orchestration: AWS Step Functions and Azure Durable Functions with retries and compensation steps
34. Database operations without a DBA team: automated backups, point-in-time recovery and Flyway or Liquibase migrations
35. ChatOps: deploy and incident notifications in Slack or Microsoft Teams with approval actions

DAYS 4-5 **Advanced: Scale, governance, AIOps and platform design** — New at this level

36. Internal developer platform: golden paths, Backstage software catalog and self-service scaffolding
37. Multi-account governance: AWS Organizations, Control Tower, SCPs, Azure management groups and landing zones
38. Scaling limits: Lambda reserved and provisioned concurrency, account quotas and quota increase planning
39. Performance tuning: cold start reduction, SnapStart, Graviton ARM functions and RDS Proxy connection pooling
40. High availability and DR: multi-region active-active with DynamoDB global tables, Route 53 failover, RTO and RPO
41. AIOps: CloudWatch anomaly detection, Azure Monitor smart detection and event correlation to cut alert noise
42. FinOps: cost allocation tags, Cost Explorer, budgets, cost anomaly detection and unit cost per request
43. Compliance automation: CloudTrail audit trails, Security Hub and Defender for Cloud standards, evidence collection
44. Chaos engineering: AWS Fault Injection Service and Azure Chaos Studio game days for managed services
45. Migration to NoOps: strangler fig pattern, moving VM workloads to containers and functions, decommission plans
46. Operating model: SRE ownership, error budgets and platform team versus product team responsibilities
47. Capstone: a fully automated service with IaC, CI/CD, SLO alerts, auto-remediation and cost guardrails

PRACTICE

Hands-on labs

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

FOUNDATION **Deploy a first serverless API**
Create an AWS SAM project, deploy a Lambda function behind API Gateway and call it with curl and a browser.

ESSENTIAL **Ship an event-driven app through CI/CD**
Build an order-processing flow with API Gateway, SQS and Lambda, deployed by a GitHub Actions pipeline to dev and staging stacks.

INTERMEDIATE **Automate remediation for a failing service**
Wire a CloudWatch alarm to an EventBridge rule that runs an automated fix, then trace a failing request end to end with OpenTelemetry.

ADVANCED **Build a governed NoOps platform**
Design a multi-account landing zone with SCPs, budgets and a self-service golden path, then deploy a multi-region service with automated failover.

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 Noops 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 NOOPS 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/noops/

ENROL OR RESERVE A SEAT
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