DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Spinnaker Advanced Training

Run Spinnaker as an enterprise delivery platform with high availability, pipeline as code, policy and observability.

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	48 topics · Foundation to Advanced
Hands-on labs	4 labs
Formats and fees	Live, 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/spinnaker/spinnaker-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 Spinnaker course path, you will be able to:

1

Automate cloud deployments

Build Spinnaker pipelines that deploy to Kubernetes and AWS from triggers and versioned artifacts.

2

Release with less risk

Use blue/green, canary analysis, approvals and automatic rollbacks for safer releases.

3

Operate Spinnaker at scale

Secure, scale, monitor and govern Spinnaker as a shared delivery platform.

WHAT THE ADVANCED LEVEL ADDS

Enterprise architecture, scale and operations

Hands-on: Highly available Spinnaker platform. Move Orca and Front50 to a SQL backend, scale Clouddriver, store pipelines in Git with Dinghy and monitor Spinnaker services in Grafana.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Use blue/green and canary strategies, bake and deploy to AWS and Kubernetes and secure Spinnaker with SSO and Fiat.
- 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

Spinnaker Advanced Training agenda

48 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: Spinnaker concepts, architecture and installation

Included from Foundation

1. What is Spinnaker: an open source multi-cloud continuous delivery platform and why Spinnaker matters
2. Spinnaker overview: applications, pipelines, stages, server groups, clusters and load balancers
3. Spinnaker architecture: Deck, Gate, Orca, Clouddriver, Front50, Rosco, Igor, Echo, Fiat and Kayenta
4. Prerequisites: Linux command line, familiarity with cloud computing, Docker and kubectl basics
5. What is Kubernetes: pods, deployments, services and namespaces as Spinnaker deployment targets
6. Kubernetes cluster installation: a lab cluster with kind, minikube or a managed Kubernetes service
7. Spinnaker installation: Halyard or the Spinnaker Operator, persistent storage (S3, GCS or MinIO) and versions
8. Installation troubleshooting: pod status, service logs and common configuration errors
9. Navigating Spinnaker: the Deck UI, applications view, clusters, infrastructure and pipeline views
10. Careers in Spinnaker: release engineering and platform engineering roles that run Spinnaker
11. First deployment: create an application and deploy a manifest through a simple pipeline

DAY 2 — Essential: Kubernetes pipelines, triggers and artifacts

Included from Essential

12. Application development in Spinnaker: creating applications, owners, notifications and enabled features
13. Kubernetes V2 (manifest based) provider: accounts, kubeconfig, namespaces and manifest deployments
14. Kubernetes continuous delivery with Spinnaker: Deploy, Delete, Scale and Patch (Manifest) stages
15. Pipelines: stages, execution options, parameters, SpEL expressions and pipeline JSON
16. Triggers: Docker registry, Git webhooks, Jenkins, cron and pipeline triggers
17. Artifacts: Docker images, GitHub and S3 artifacts, expected artifacts and binding them to manifests
18. New Docker images in staging: image triggers that roll freshly built images into a staging namespace
19. Manual Judgment: approval gates for promotion from staging to production
20. Searching in Spinnaker: finding applications, clusters, server groups and load balancers across accounts
21. Notifications and alerts: Slack, email and webhook notifications on pipeline events
22. Benefits of building in Spinnaker: immutable deployments, repeatable pipelines and fast rollbacks
23. Spinnaker demo: an application deployment end to end from image push to production
24. Kayenta automated canary analysis: concepts, canary vs baseline and judge scoring

DAY 3 — Intermediate: Deployment strategies, canaries, AWS and security

Included from Intermediate

25. Deployment strategies: red/black (blue/green), highlander, rolling red/black and canary
26. Canary configuration: Kayenta with Prometheus metrics, metric groups, thresholds and canary analysis stages
27. Spinnaker on AWS: EC2 and ECS accounts, AMI baking with Rosco and Packer and Lambda deployments
28. Bake (Manifest): rendering Helm charts and Kustomize overlays inside pipelines
29. CI integration: Jenkins and GitHub Actions triggering pipelines and passing build artifacts
30. Advanced expressions: SpEL helper functions, conditional stages and dynamic parameters

31. Run Job stages: database migrations, smoke tests and scripts as Kubernetes jobs
32. Rollbacks: automatic rollback on failure, undo rollout and restoring previous server groups
33. Authentication: OAuth 2.0, SAML or LDAP for Gate and Deck
34. Authorisation with Fiat: account and application permissions and service accounts
35. Secrets: encrypted secrets in S3, GCS or Vault and keeping credentials out of pipelines
36. Troubleshooting pipelines: execution details, Orca and Clouddriver logs and stuck stages

DAYS 4-5 **Advanced: Enterprise architecture, scale and operations** — **New at this level**

37. Enterprise Spinnaker architecture: multi-account, multi-region and multi-cloud designs
38. Enterprise use cases: progressive delivery for regulated releases and large microservice estates
39. High availability: scaling Clouddriver and Orca, SQL backends for Orca, Clouddriver and Front50, Redis
40. Pipeline as code: Dinghy, sponnet and storing pipeline definitions in Git
41. Policy and compliance: execution windows, OPA policy checks and audit trails
42. Monitoring Spinnaker: Prometheus metrics, Grafana dashboards and alerts on service health
43. Performance tuning: caching agents, Clouddriver sharding and JVM sizing
44. Upgrades and backups: version upgrades, backing up Front50 data and configuration
45. Security hardening: TLS between services, network policies and least-privilege cloud accounts
46. Extending Spinnaker: the plugin framework, custom stages and webhook stages
47. GitOps alongside Spinnaker: when to pair with Argo CD or Flux and migration considerations
48. Capstone: a multi-environment progressive delivery platform with automated canary promotion

PRACTICE

Hands-on labs

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

FOUNDATION

Install Spinnaker and deploy once

Install Spinnaker on a lab Kubernetes cluster with MinIO storage, create an application and deploy an nginx manifest through a one-stage pipeline.

ESSENTIAL

Image-triggered staging to production

Build a pipeline that deploys each new Docker image to staging, waits for a Manual Judgment and promotes the same artifact to production with Slack notifications.

INTERMEDIATE

Automated canary with rollback

Deploy a service with a Kayenta canary stage driven by Prometheus metrics that promotes on pass and rolls back automatically on failure.

ADVANCED

Highly available Spinnaker platform

Move Orca and Front50 to a SQL backend, scale Clouddriver, store pipelines in Git with Dinghy and monitor Spinnaker services in Grafana.

HOW YOU CAN LEARN

Formats and fees

The same agenda in three 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**
Self-paced video	1-year LMS access	All four Spinnaker 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). 1:1 training is also available on demand.	**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 SPINNAKER 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. Corporate and 1:1 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/spinnaker/

ENROL OR RESERVE A SEAT
Spinnaker Advanced Training

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