DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Argo Advanced Training

Scale and harden Argo for multi-team, multi-cluster platforms with HA, governance, observability and disaster recovery.

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/argo/argo-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 Argo course path, you will be able to:

1

Deliver with GitOps

Deploy and reconcile Kubernetes applications from Git with Argo CD.

2

Automate pipelines and releases

Build event-driven workflows and progressive canary and blue-green releases with Argo Workflows, Events and Rollouts.

3

Operate Argo at scale

Run secure, highly available, multi-cluster Argo platforms with governance and observability.

WHAT THE ADVANCED LEVEL ADDS

Scale, multi-tenancy, security and fleet management

Hands-on: Multi-cluster GitOps platform. Run HA Argo CD managing three clusters through ApplicationSets with policies, Rollouts, Workflows and dashboards, then restore from backup.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Add canary and blue-green releases, event-driven pipelines, ApplicationSets, SSO and secret management to Argo setups.
- 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

Argo 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: GitOps concepts, Argo projects and installation

Included from Foundation

1. Argo project overview: Argo CD, Argo Workflows, Argo Rollouts and Argo Events as a graduated CNCF project
2. GitOps principles: declarative, versioned, pulled automatically and continuously reconciled
3. Kubernetes prerequisites: kubectl, namespaces, Deployments, Services and custom resource definitions
4. Lab setup: a local kind or minikube cluster and a Git repository for manifests
5. Argo CD architecture: API server, repository server, application controller, Redis and ApplicationSet controller
6. Installing Argo CD: install manifests, initial admin password, argocd CLI login and UI access
7. First Argo CD Application: deploying the guestbook app from Git and reading sync and health status
8. Argo Workflows architecture: workflow controller, Argo Server, executor and workflow CRDs
9. Installing Argo Workflows: quick-start install, argo CLI and the web UI
10. First workflow: a hello-world container step submitted with argo submit and watched in the UI

DAY 2 — Essential: Argo CD applications and Argo Workflows everyday use

Included from Essential

11. Application spec: source repository, path, target revision, destination cluster and namespace
12. Manifest sources: plain YAML, Helm charts with values and Kustomize overlays
13. Sync policies: manual versus automated sync, prune, self-heal and sync options
14. Sync waves and hooks: PreSync, Sync and PostSync hooks and ordering resources
15. AppProjects: source and destination restrictions and basic project roles
16. Repositories and clusters: HTTPS and SSH credentials and registering additional clusters
17. Diffing: ignoreDifferences, managed fields and drift detection
18. Workflow steps and DAGs: sequential steps, parallel steps and DAG dependencies
19. Parameters and outputs: input parameters, output parameters and passing data between steps
20. Artifacts: artifact repositories with S3 or MinIO and passing files between steps
21. Reusable workflows and schedules: cluster-wide reusable workflow definitions and CronWorkflows
22. Workflow operations: retries, timeouts, exit handlers and resubmitting failed workflows

DAY 3 — Intermediate: Progressive delivery, events, ApplicationSets and secrets

Included from Intermediate

23. Argo Rollouts: Rollout resources, canary steps, blue-green previews and promotion
24. Automated analysis: AnalysisRuns with Prometheus metrics, success conditions and automatic rollback
25. Traffic management: NGINX Ingress, Istio and Gateway API traffic splitting for Rollouts
26. Argo Events: EventSources, Sensors, the EventBus and triggers for GitHub webhooks, Kafka and S3
27. CI/CD pipeline: Argo Events triggering Workflows that build images and update Git for Argo CD
28. ApplicationSets: list, Git, cluster and matrix generators for many apps and clusters
29. App of Apps pattern: bootstrapping a cluster from a single root application
30. Secrets in GitOps: Sealed Secrets, External Secrets Operator and argocd-vault-plugin

31. SSO and RBAC: Dex or OIDC login, RBAC policy.csv and project-scoped roles
32. Notifications and image updates: Argo CD Notifications and Argo CD Image Updater
33. Troubleshooting: sync failures, degraded health, OutOfSync loops and controller logs

DAYS 4-5 **Advanced: Scale, multi-tenancy, security and fleet management** — New at this level

34. High availability install: HA manifests, Redis HA and scaling API and repository servers
35. Scaling Argo CD: application controller sharding, resource exclusions and repo-server caching
36. Multi-tenancy: per-team AppProjects, namespaced Applications and RBAC boundaries
37. Security hardening: GPG commit verification, restricted cluster resources and network policies
38. Policy as code: Kyverno or OPA Gatekeeper with GitOps for guardrails
39. Fleet management: hub-and-spoke multi-cluster delivery with ApplicationSets
40. Observability: Argo CD and Workflows Prometheus metrics, Grafana dashboards and alerting
41. Workflows at scale: workflow archive in PostgreSQL, parallelism limits, pod GC and memoization
42. Disaster recovery: argocd admin export and import, backing up CRDs and cluster re-bootstrap
43. Upgrades: Argo CD 2.x to 3.x changes, CRD upgrades and safe upgrade procedures
44. Platform engineering: golden paths, self-service app onboarding and progressive delivery governance
45. Capstone: multi-cluster GitOps platform with progressive delivery and event-driven pipelines

PRACTICE

Hands-on labs

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

FOUNDATION **First GitOps deployment**
Install Argo CD and Argo Workflows on kind, deploy an app from Git and run a hello-world workflow.

ESSENTIAL **Helm app with automated sync and pipeline**
Deploy a Helm-based app with automated sync and self-heal, and build a DAG workflow that tests and packages code with artifacts.

INTERMEDIATE **Canary release pipeline**
Wire a GitHub webhook through Argo Events to a build workflow, then release the new image as a canary with Prometheus analysis.

ADVANCED **Multi-cluster GitOps platform**
Run HA Argo CD managing three clusters through ApplicationSets with policies, Rollouts, Workflows and dashboards, then restore from backup.

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 Argo 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 ARGO 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/argo/

ENROL OR RESERVE A SEAT
Argo Advanced Training

WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com