DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Velero Advanced Training

Design and test disaster recovery for many clusters with Velero, tune it for large workloads and govern backups across 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	46 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/velero/velero-and-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 Velero course path, you will be able to:

1

Back up Kubernetes reliably

Back up and restore cluster resources and persistent volumes with Velero, CSI snapshots and Kopia.

2

Migrate and recover workloads

Move applications between clusters and clouds and restore them consistently with hooks and modifiers.

3

Run disaster recovery

Design, monitor, secure and regularly test a multi-cluster backup and recovery strategy.

WHAT THE ADVANCED LEVEL ADDS

Disaster recovery strategy, scale and governance

Hands-on: Capstone: multi-cluster disaster recovery drill. Protect two clusters with scheduled Velero backups to immutable storage, simulate a region outage and rebuild the platform within a target recovery time.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Move snapshot data off-cluster, migrate workloads between clusters, monitor backups and secure your Velero deployment.
- 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

Velero Advanced Training agenda

46 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: Kubernetes backup concepts, architecture and installation

Included from Foundation

1. Why Kubernetes backup: etcd snapshots versus application-aware backup, recovery point and recovery time objectives
2. What Velero does: backing up, restoring and migrating cluster resources and persistent volumes
3. Architecture: Velero server, custom resources, node agent DaemonSet and object storage
4. Core resources: Backup, Restore, Schedule, BackupStorageLocation and VolumeSnapshotLocation
5. Storage providers: plugins for AWS S3, Azure Blob, Google Cloud Storage and S3-compatible MinIO
6. Installing the CLI: velero client install, version checks and shell completion
7. Installing the server: velero install flags and the official Helm chart
8. Credentials: cloud credentials files, IAM roles and Kubernetes secrets for plugins
9. First backup: velero backup create for one namespace and describing the result
10. First restore: velero restore create from a backup and verifying the workload
11. Backup contents: how resources are stored in object storage and backup logs

DAY 2 — Essential: Volume backups, schedules, filtering and hooks

Included from Essential

12. Volume backup options: CSI snapshots, cloud provider snapshots and file system backup
13. CSI snapshots: VolumeSnapshotClass setup and Velero's built-in CSI snapshot support
14. File System Backup: the node agent, the Kopia uploader and opt-in or opt-out volume selection
15. Schedules: cron-based schedules, backup TTL and retention
16. Resource filtering: include and exclude namespaces, resources, label selectors and cluster-scoped resources
17. Backup hooks: pre and post exec hooks to quiesce databases for consistent backups
18. Restore options: namespace mapping, restoring selected resources and existing resource policies
19. Restore hooks: init containers and exec hooks to prepare data after restore
20. Status and troubleshooting: velero backup describe and logs, partially failed backups and common errors
21. Multiple locations: several BackupStorageLocations and choosing defaults per backup
22. Day-to-day CLI: get, describe, delete and download operations for backups and restores

DAY 3 — Intermediate: Data movement, migration, monitoring and security

Included from Intermediate

23. CSI snapshot data movement: Data Mover for copying snapshot data to object storage
24. Cluster migration: moving workloads between clusters, Kubernetes versions and cloud providers
25. Resource modifiers: changing storage classes, images or fields during restore
26. Restore ordering and dependencies: CRDs, custom resources and restore resource priorities
27. Backup repositories: Kopia repository maintenance, encryption and storage costs
28. Monitoring: Velero Prometheus metrics, alerts on failed or missing backups and dashboards
29. Security: RBAC for Velero, restricting who can restore, credential rotation and object storage encryption
30. Immutable backups: object lock and bucket policies to defend against ransomware and deletion

31. Upgrades: upgrading Velero, CRDs and plugins safely
32. Plugins: backup and restore item actions and extending Velero with custom plugins
33. GitOps and automation: managing schedules and storage locations declaratively with Argo CD or Flux
34. Troubleshooting: debug bundles, node agent issues, snapshot timeouts and partially failed restores

DAYS 4-5 **Advanced: Disaster recovery strategy, scale and governance** — New at this level

35. Disaster recovery design: RPO and RTO targets, backup tiers and cross-region copies
36. Full cluster recovery: rebuilding a cluster and restoring platform and application layers in order
37. Multi-cluster operations: central storage, naming conventions and per-cluster storage locations
38. Performance at scale: parallel volume backups, node agent resources and large namespace backups
39. Application consistency: database-native dumps combined with Velero for transactional systems
40. Multi-tenancy: team self-service backups, namespace isolation and restore approvals
41. Compliance: retention policies, audit trails and evidence of tested restores
42. Platform integrations: OpenShift API for Data Protection built on Velero and managed Kubernetes services
43. DR testing: scheduled restore drills, automated verification and game days
44. Cost management: storage lifecycle rules, deduplication and snapshot cleanup
45. Runbooks: incident playbooks for accidental deletion, ransomware and region outages
46. Capstone: a tested, monitored multi-cluster backup and disaster recovery platform

PRACTICE

Hands-on labs

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

FOUNDATION **Back up and restore a namespace**
Install Velero with MinIO as object storage, back up a namespace running a web application, delete it as if by mistake and restore it to working order.

ESSENTIAL **Protect a stateful database with hooks**
Schedule daily backups of a PostgreSQL StatefulSet with CSI snapshots and pre-backup hooks, then restore it into a new namespace with namespace mapping.

INTERMEDIATE **Migrate an application between clusters**
Back up an application with Data Mover in one cluster and restore it into a second cluster with a different storage class using resource modifiers.

ADVANCED **Capstone: multi-cluster disaster recovery drill**
Protect two clusters with scheduled Velero backups to immutable storage, simulate a region outage and rebuild the platform within a target recovery time.

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 Velero 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 VELERO 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/velero/

ENROL OR RESERVE A SEAT
Velero Advanced Training

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