DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Harvester Advanced Training

Design Harvester for high availability, disaster recovery and scale, and apply real-world deployment patterns and upgrades.

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, 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/harvester/harvester-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 Harvester course path, you will be able to:

1

Run VMs on Harvester

Install Harvester and create, configure, migrate and manage virtual machines on hyperconverged infrastructure.

2

Configure storage and networking

Design Longhorn storage, VLAN networks and load balancers for production workloads.

3

Operate resilient HCI clusters

Secure, monitor, back up, integrate with Rancher and upgrade highly available Harvester clusters.

WHAT THE ADVANCED LEVEL ADDS

High availability, DR, scale, devices and upgrades

Hands-on: Design a resilient Harvester platform. Build a highly available cluster with GPU or PCI passthrough, run a DR restore to a second cluster and upgrade the cluster with zero VM downtime.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Monitor and troubleshoot Harvester, secure the cluster, back up and restore VMs and manage Harvester from Rancher.
- 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

Harvester 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: HCI concepts, architecture, installation and first VMs

Included from Foundation

1. Introduction to Harvester: overview of features, architecture and use cases for open source HCI
2. Harvester building blocks: SUSE Linux Enterprise Micro, RKE2, KubeVirt and Longhorn
3. Harvester installation prerequisites: hardware, CPU virtualization, disks, NICs and network planning
4. Deployment options: ISO install, PXE boot, USB install and joining additional nodes
5. Post-installation configuration: cluster VIP, NTP, DNS, SSL certificates and settings
6. Harvester management interface: overview and navigation of the dashboard, hosts and resources
7. VM images: uploading ISO and qcow2 images and downloading images from URLs
8. Managing virtual machines in Harvester: provisioning with CPU, memory, disks and networks
9. Cloud-init: user data and network data for automated guest configuration
10. VM operations: start, stop, restart, console access, resizing and SSH keys
11. Lab: installing and configuring Harvester and creating first virtual machines

DAY 2 — Essential: Storage, networking, migration and day-to-day operations

Included from Essential

12. Storage configuration in Harvester: Longhorn storage pools, volumes and replica policies
13. Storage classes: replica count, disk selectors and data locality settings
14. Volume operations: hot-plugging volumes, expanding disks and volume snapshots
15. Networking setup in Harvester: management network, cluster networks and network configs
16. VLAN networks: uplink NICs, bonding modes and attaching VMs to VLANs
17. Load balancers: VM load balancers and IP pools for exposing workloads
18. VM migration: live migration between hosts and resizing running workloads
19. Host management: maintenance mode, cordoning nodes and adding or removing disks
20. Reusable VM definitions: VM configurations, SSH key pairs and namespaces for teams
21. Lab: configuring storage resources and networking in Harvester
22. Lab: managing VMs in Harvester with migrations and snapshots

DAY 3 — Intermediate: Monitoring, security, backup and Rancher integration

Included from Intermediate

23. Monitoring and troubleshooting: monitoring cluster health with the Prometheus and Grafana add-on
24. Logging and alerting: the logging add-on, log outputs and alert notifications
25. Troubleshooting common issues: support bundles, node and VM events and kubectl access
26. Lab: monitoring and troubleshooting in Harvester
27. Security best practices: network security, access controls and encryption in Harvester
28. Access control: users, roles and namespaces through Rancher multi-tenancy
29. Lab: implementing security measures in Harvester
30. Backup and recovery: strategies and techniques for backing up and restoring data in Harvester

31. Backup targets: NFS and S3-compatible backup targets, VM backups, restores and snapshots
32. Lab: implementing backup and recovery in Harvester
33. Integration with Rancher: overview of integrating Harvester with Rancher for centralized management
34. Lab: integrating Harvester with Rancher and provisioning guest Kubernetes clusters

DAYS 4-5 **Advanced: High availability, DR, scale, devices and upgrades** — New at this level

35. Advanced Harvester features: high availability, disaster recovery and scalability
36. High availability design: three-node control plane, witness node and failure domains
37. Disaster recovery: restoring VMs to another cluster and backup scheduling strategies
38. Device passthrough: PCI devices, vGPU, USB passthrough and SR-IOV networking
39. Harvester CSI and cloud provider: persistent volumes and load balancers for guest Kubernetes clusters
40. Third-party storage: using external CSI storage alongside Longhorn
41. Upgrades: upgrade paths, pre-upgrade checks and rolling node upgrades
42. Infrastructure as code: the Harvester Terraform provider and GitOps-managed VM definitions
43. Lab: implementing advanced features in Harvester
44. Use cases and deployment patterns: real-world deployment scenarios such as edge, VDI and VMware replacement
45. Lab: deploying Harvester in different use case scenarios
46. Certification preparation: tips and strategies for preparing for Harvester-related certifications and Q&A session
47. Hands-on workshop: labs and exercises focusing on participants' specific areas of interest or challenges
48. Recap and review: summary of key topics, feedback session and next steps for learning and community

PRACTICE

Hands-on labs

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

FOUNDATION

Install Harvester and launch VMs

Install a Harvester cluster from ISO, upload a cloud image and provision Linux virtual machines configured through cloud-init.

ESSENTIAL

Configure storage, VLANs and migration

Create storage classes and a VLAN network, attach VMs to them, expose a service through a load balancer and live-migrate a VM during host maintenance.

INTERMEDIATE

Secure, back up and centralise Harvester

Enable monitoring and logging, apply role-based access, back up and restore VMs to S3 and import the cluster into Rancher to provision a guest RKE2 cluster.

ADVANCED

Design a resilient Harvester platform

Build a highly available cluster with GPU or PCI passthrough, run a DR restore to a second cluster and upgrade the cluster with zero VM downtime.

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 Harvester 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 HARVESTER 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/harvester/

ENROL OR RESERVE A SEAT
Harvester Advanced Training

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