DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

Podman Essential Training

Build images, persist data, connect containers in networks and pods, and publish images to registries for everyday team work.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **2 days · Days 1-2**	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 · This curriculum	3 days · Next step	5 days · Later

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	22 topics · Foundation to Essential
Hands-on labs	2 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/podman/podman-essential-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 Podman course path, you will be able to:

1

Run secure rootless containers

Build, run and troubleshoot rootless containers and pods with Podman, Buildah and Skopeo.

2

Operate containers with systemd

Manage container workloads as systemd services with Quadlet, auto-update and Kubernetes YAML.

3

Harden and migrate at scale

Apply image trust, SELinux and supply-chain controls and migrate Docker workloads to Podman.

WHAT THE ESSENTIAL LEVEL ADDS

Images, volumes, networks, pods and registries

Hands-on: Run a two-tier app in a pod. Build a web application image, then run it with PostgreSQL in one pod using a named volume, a secret and a health check.

WHO SHOULD ATTEND

- Learners who know the basics of Podman and want to use it confidently every day.
- Professionals taking over Podman work on a live project.
- Teams agreeing on a common way of working with Podman.

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Install Podman, understand its daemonless architecture and run, inspect and manage rootless containers and images.
- 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 ESSENTIAL

Podman Essential Training agenda

22 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: Podman architecture, install and rootless basics

Included from Foundation

1. Container fundamentals: images, containers, OCI specifications and how Podman differs from Docker (daemonless, fork-exec)
2. Podman architecture: libpod, conmon, crun or runc, netavark and aardvark-dns, containers/storage
3. Installation: Podman 5 on Fedora, RHEL, Ubuntu and Debian; podman machine and Podman Desktop on macOS and Windows
4. Rootless containers: user namespaces, /etc/subuid and /etc/subgid, rootless vs rootful trade-offs
5. Configuration files: containers.conf, registries.conf, storage.conf and unqualified-search registries
6. First container: podman run, ps, logs, exec, stop and rm with the -d, -it and --rm flags
7. Images: podman pull, images, inspect, tag, rmi and fully qualified names such as docker.io and quay.io
8. Port publishing: -p mappings, rootless ports below 1024 and the pasta rootless network backend
9. Docker compatibility: the podman-docker package, alias docker=podman and command differences
10. Getting help: podman info, podman version, podman system df and the podman man pages

DAY 2 — Essential: Images, volumes, networks, pods and registries

New at this level

11. Building images: Containerfile syntax, podman build, build arguments, multi-stage builds and .containerignore
12. Buildah: scripted builds with buildah from, run, copy and commit, and when to use it instead of podman build
13. Volumes and bind mounts: podman volume create, named volumes, -v vs --mount, SELinux :z and :Z labels
14. Networking: podman network create, DNS resolution between containers, bridge, host and none modes
15. Pods: podman pod create, the infra container, shared network namespace and adding containers to a pod
16. Environment and secrets: -e and --env-file, podman secret create and mounting secrets into containers
17. Registries: podman login, auth.json, pushing to Quay.io, Docker Hub or a private registry
18. Skopeo: inspecting remote images, copying images between registries without pulling, syncing repositories
19. Compose workflows: podman compose with docker-compose or podman-compose providers and their limits
20. Resource limits: --memory, --cpus and --pids-limit, monitoring with podman stats and podman top
21. Health checks and restarts: --health-cmd, intervals, podman healthcheck run and restart policies
22. Image hygiene: tags vs digests, podman image prune and system prune, reducing image size

PRACTICE

Hands-on labs

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

FOUNDATION

Run a rootless web container

Install Podman, run Nginx as an unprivileged user with a published port, then inspect its logs, processes and image metadata.

ESSENTIAL

Run a two-tier app in a pod

Build a web application image, then run it with PostgreSQL in one pod using a named volume, a secret and a health check.

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 Podman levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	2 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 PODMAN 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/podman/

ENROL OR RESERVE A SEAT
Podman Essential Training

WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com

Next step after this level: Podman Intermediate Training - Run Podman workloads as systemd services with Quadlet, generate Kubernetes YAML, automate in CI and secure and troubleshoot containers.