DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

Linkerd Advanced Training

Run Linkerd in production with high availability, tuned performance, safe upgrades, mesh expansion and governed policies.

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/linkerd/linkerd-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 Linkerd course path, you will be able to:

1

Mesh Kubernetes workloads

Install Linkerd and mesh applications with automatic mTLS and golden metrics.

2

Control and secure traffic

Apply retries, timeouts, traffic splits and zero-trust authorization policies.

3

Operate the mesh in production

Run highly available, multicluster Linkerd with safe upgrades, SLOs and governance.

WHAT THE ADVANCED LEVEL ADDS

HA production operations, scale and governance

Hands-on: Build a production multicluster mesh. Install Linkerd in HA mode with Helm on two clusters, apply zero-trust policies, define SLO alerts on golden metrics and perform a documented control plane upgrade.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Enforce zero-trust authorization, automate certificate rotation, connect clusters and troubleshoot the mesh confidently.
- 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

Linkerd 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: Service mesh concepts, install and first meshed app

Included from Foundation

1. Service mesh concepts: the problems of service-to-service traffic, sidecars versus sidecar-less designs
2. Linkerd overview: CNCF graduated project, design goals of simplicity, security and a lightweight Rust proxy
3. Linkerd architecture: control plane (destination, identity, proxy-injector) and the linkerd2-proxy data plane
4. Release model: edge releases from the open source project and vendor stable distributions
5. Prerequisites: a Kubernetes cluster, kubectl access and linkerd check --pre
6. Installing the CLI and control plane: linkerd install --crds, linkerd install and linkerd check
7. Meshing workloads: the linkerd.io/inject annotation, linkerd inject and rolling restarts
8. Automatic mTLS: workload identity from ServiceAccounts, trust anchor and issuer certificates
9. Viz extension: linkerd viz install and the dashboard for golden metrics
10. Golden metrics: success rate, requests per second and latency percentiles per deployment
11. First working example: meshing a demo microservices app and reading its live traffic

DAY 2 — Essential: Observability, traffic control and reliability features

Included from Essential

12. CLI observability: linkerd viz stat, top, tap, edges and routes for live traffic insight
13. Per-route metrics: HTTPRoute and ServiceProfile resources for route-level success rate and latency
14. Retries and timeouts: configuring them on routes with annotations and retry budgets
15. Traffic splitting: weighted backends with Gateway API HTTPRoute for canary and blue-green releases
16. Load balancing: request-level EWMA balancing for HTTP and gRPC and why it beats connection balancing
17. Protocol detection: automatic HTTP/1.1, HTTP/2 and gRPC detection, opaque and skip ports
18. Proxy configuration: annotations for resources, log levels, ports and proxy injection exceptions
19. Ingress integration: meshing NGINX, Traefik or Envoy Gateway ingress controllers
20. Prometheus and Grafana: using the viz Prometheus or bringing your own and importing dashboards
21. Distributed tracing: the Jaeger extension and propagating trace headers from applications
22. Team workflow: namespace-level injection, GitOps-friendly manifests and Helm installation

DAY 3 — Intermediate: Zero-trust policy, certificates, multicluster and troubleshooting

Included from Intermediate

23. Authorization policy: Server, HTTPRoute, AuthorizationPolicy, MeshTLSAuthentication and NetworkAuthentication
24. Default inbound policies: all-unauthenticated, cluster-authenticated, deny and per-namespace overrides
25. Zero-trust rollout: auditing traffic first, then moving namespaces to deny by default
26. Certificate management: trust anchor and issuer rotation with cert-manager and Helm values
27. Rate limiting: HTTPLocalRateLimitPolicy for protecting services from overload
28. Egress control: visibility and policy for traffic leaving the cluster with EgressNetwork
29. Multicluster: linkerd multicluster install and link, service mirroring and gateway versus pod-to-pod modes
30. Failover across clusters: mirrored services and traffic shifting during outages

31. Progressive delivery: Flagger with Linkerd metrics for automated canary analysis
32. CNI plugin: linkerd-cni versus init containers and environments that restrict NET_ADMIN
33. Troubleshooting: linkerd check, linkerd diagnostics, proxy logs, injection failures and policy denials

DAYS 4-5 **Advanced: HA production operations, scale and governance** — **New at this level**

34. High availability mode: replicas, pod anti-affinity, PodDisruptionBudgets and webhook failure policies
35. Production Helm installation: values for HA, external Prometheus, resource requests and pinned versions
36. Upgrades: edge-to-edge upgrades, CRD ordering, data plane restarts and rollback plans
37. Performance tuning: proxy CPU and memory sizing, concurrency, latency overhead measurement
38. Scaling the control plane for large clusters: destination controller load and endpoint churn
39. Mesh expansion: bringing non-Kubernetes workloads into the mesh with ExternalWorkload
40. Multicluster topology: federated services across clusters, network layout and trust domain choices
41. Security hardening: least-privilege policies, trust domain design, secret storage and audit evidence
42. Observability at scale: long-term metrics retention, SLOs on golden metrics and alerting rules
43. Governance: policy-as-code reviews, GitOps for mesh configuration and change management
44. Migration: moving from another mesh or from no mesh with phased namespace adoption
45. Capstone: production-ready multicluster Linkerd with zero-trust policy, SLO alerts and an upgrade runbook

PRACTICE

Hands-on labs

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

FOUNDATION **Install Linkerd and mesh an app**

Install Linkerd and the viz extension on a cluster, inject a multi-service demo application and confirm mTLS and golden metrics in the dashboard.

ESSENTIAL **Run a canary release with Linkerd**

Add per-route metrics, retries and timeouts to a service, then shift traffic gradually from v1 to v2 with an HTTPRoute split while watching success rate.

INTERMEDIATE **Enforce zero-trust and link clusters**

Move an application to deny-by-default with explicit authorization policies, rotate certificates with cert-manager and mirror a service to a second cluster for failover.

ADVANCED **Build a production multicluster mesh**

Install Linkerd in HA mode with Helm on two clusters, apply zero-trust policies, define SLO alerts on golden metrics and perform a documented control plane upgrade.

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 Linkerd 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 LINKERD 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/linkerd/

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Linkerd Advanced Training

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