DevOpsSchool

Course curriculum · November 2026

LEVEL 01 OF 04 · FOUNDATION

# Etcd Foundation Training

Understand how etcd stores data with Raft consensus, install a local cluster and read and write keys with etcdctl.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**1 day · Day 1** | SELF-PACED VIDEO<br>**1-year LMS access** |
| BATCH SIZE<br>**Max 10 learners** | NEXT BATCHES<br>**1st of every month · weekends: first Saturday** | CERTIFICATE<br>**Verifiable certificate of completion** |

| Foundation | Essential | Intermediate | Advanced |
|---|---|---|---|
| 1 day · This curriculum | 2 days · Next step | 3 days · Later | 5 days · Later |

## INSIDE THIS CURRICULUM


| | |
|---|---|
| What you will achieve | Outcomes and level focus |
| Who should attend | Audience and prerequisites |
| Agenda | 12 topics · Foundation |
| Hands-on labs | 1 lab |
| 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/etcd/etcd-foundation-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 Etcd course path, you will be able to:

1

### Run reliable etcd clusters

Deploy secure, highly available etcd clusters with TLS, RBAC and correct member counts.

2

### Protect critical cluster state

Back up, restore and recover etcd for Kubernetes and other platforms with tested runbooks.

3

### Tune and troubleshoot etcd

Use metrics and maintenance tasks to keep etcd fast, healthy and within quota.

WHAT THE FOUNDATION LEVEL ADDS

### Key-value concepts, Raft basics and etcdctl

**Hands-on:** Run a three-member etcd cluster. Start three etcd members locally, write and watch keys with etcdctl, stop one member and prove the cluster keeps quorum and data.

WHO SHOULD ATTEND

- Beginners and working professionals who are new to Etcd and want a solid, hands-on start.
- Engineers, analysts, testers and students preparing to use Etcd on real work.
- Leads and managers who want first-hand familiarity with Etcd.

BEFORE YOU START

- No prior Etcd experience is needed.
- 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

# Etcd Foundation Training agenda

12 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: Key-value concepts, Raft basics and etcdctl

New at this level

1. What etcd is: distributed, strongly consistent key-value store, CNCF graduated project and the backbone of Kubernetes
2. Core concepts: keys, values, revisions, MVCC history, prefixes and the flat keyspace of the v3 API
3. Raft consensus basics: leader, followers, terms, log replication, quorum and why clusters use 3 or 5 members
4. Architecture: gRPC API, Raft module, write-ahead log (WAL), snapshots and the bbolt backend
5. Installation: release binaries, systemd unit, Docker container and checking etcd --version
6. Single-node start: data-dir, listen-client-urls, advertise-client-urls and the default ports 2379 and 2380
7. etcdctl basics: ETCDCTL_API=3, endpoints flags, put, get, get --prefix, del and output formats (json, table)
8. Watches: watch a key or prefix, watch from a past revision and observing changes in real time
9. Leases and TTL: lease grant, put --lease, keep-alive and automatic key expiry
10. Cluster health: endpoint health, endpoint status, member list and identifying the leader
11. Use cases: configuration storage, service discovery, leader election and distributed locks
12. First example: start a three-member local cluster and verify replication by killing one member

PRACTICE

# Hands-on labs

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

FOUNDATION

**Run a three-member etcd cluster**

Start three etcd members locally, write and watch keys with etcdctl, stop one member and prove the cluster keeps quorum and data.

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 Etcd levels, plus 20+ more courses and 50+ tools, at your own pace. | **INR 833/month** billed yearly at INR 9,996 |
| **Corporate (day-wise)** | 1 day 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 ETCD 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/etcd/

ENROL OR RESERVE A SEAT
**Etcd Foundation Training**

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**Next step after this level: Etcd Essential Training** - Deploy a secured multi-node etcd cluster, use transactions and locks, and take and restore snapshots safely.