DevOpsSchool

Course curriculum · November 2026

LEVEL 01 OF 04 · FOUNDATION

Tikv Foundation Training

Understand how TiKV stores and replicates data, start a local cluster with TiUP and read and write your first keys.

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

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	11 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/tikv/tikv-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 Tikv course path, you will be able to:

1

Understand TiKV internals

Explain regions, Raft replication, MVCC and Percolator transactions and how they shape application design.

2

Deploy and operate clusters

Deploy, scale, upgrade, secure and back up TiKV clusters with TiUP, BR and TiDB Operator.

3

Run TiKV at scale

Design multi-zone topologies, tune performance and recover from failures with tested runbooks.

WHAT THE FOUNDATION LEVEL ADDS

Distributed key-value concepts, architecture and first cluster

Hands-on: Start TiKV and store your first keys. Launch a local PD and three-node TiKV cluster with tiup playground, write and scan keys from a client program and inspect region placement with pd-ctl.

WHO SHOULD ATTEND

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

BEFORE YOU START

- No prior Tikv 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

Tikv Foundation Training agenda

11 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: Distributed key-value concepts, architecture and first cluster

New at this level

1. What TiKV is: a CNCF graduated distributed transactional key-value database and its relationship to TiDB
2. Use cases: metadata stores, large-scale key-value workloads and the storage layer under TiDB
3. Architecture: TiKV nodes, Placement Driver (PD), regions, peers and the timestamp oracle
4. Raft consensus: leaders, followers, log replication and why three replicas tolerate one failure
5. Storage engine: RocksDB, column families and Raft Engine for the Raft log
6. Data model: ordered byte keys, region splitting by key range and region size
7. Raw KV versus transactional KV: API differences and when to choose each
8. Installing with TiUP: tiup playground for a local cluster and checking component status
9. First reads and writes: put, get, scan and delete with the Go, Rust, Java or Python client
10. Cluster inspection: pd-ctl store and region commands and the TiKV dashboard pages in Grafana
11. Configuration basics: tikv.toml and pd.toml structure and the most important defaults

PRACTICE

Hands-on labs

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

FOUNDATION

Start TiKV and store your first keys

Launch a local PD and three-node TiKV cluster with tiup playground, write and scan keys from a client program and inspect region placement with pd-ctl.

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 Tikv 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 TIKV 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/tikv/

ENROL OR RESERVE A SEAT
Tikv Foundation Training

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Next step after this level: Tikv Essential Training - Deploy a multi-node TiKV cluster with TiUP and build applications that use transactions, TTL and range scans correctly.