DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

Redis Essential Training

Use Redis from application code with the right data types, transactions, scripts, pub/sub and proven caching patterns.

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	23 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/redis/redis-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 Redis course path, you will be able to:

1

Model data in Redis

Choose and use the right Redis data types for caching, queues, leaderboards and analytics.

2

Run Redis reliably

Configure persistence, replication, Sentinel, ACLs and TLS, and troubleshoot production instances.

3

Scale Redis platforms

Operate Redis Cluster on servers, Kubernetes or managed clouds for high-traffic and AI workloads.

WHAT THE ESSENTIAL LEVEL ADDS

Advanced data types, caching patterns and clients

Hands-on: Add caching and a job queue. Put a cache-aside layer with TTLs in front of a database-backed API, and process background jobs from a Redis stream with a consumer group.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Install Redis, use redis-cli and Redis Insight, and store and expire data with strings, lists, hashes, sets and sorted sets.
- 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

Redis Essential Training agenda

23 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: Redis concepts, installation and core data types

Included from Foundation

1. In-memory data stores: what Redis is, single-threaded event loop, and use cases such as caching, sessions and leaderboards
2. Redis today: Redis 8 Open Source and its licences, Redis Software and Cloud, and the Valkey community fork
3. Installation: apt and dnf packages, the official Docker image, redis.conf basics and starting the server
4. redis-cli: connecting, PING, INFO, SELECT, HELP and running commands interactively and from scripts
5. Keys: naming conventions, EXISTS, DEL, TYPE, RENAME, and why SCAN replaces KEYS in production
6. Expiration: EXPIRE, TTL, PERSIST, SET with EX and NX, and how keys are evicted on expiry
7. Strings: SET, GET, INCR, DECR, APPEND, MSET and atomic counters
8. Lists: LPUSH, RPUSH, LPOP, LRANGE, LTRIM and blocking BLPOP for simple queues
9. Hashes: HSET, HGET, HGETALL, HINCRBY and modelling objects
10. Sets and sorted sets: SADD, SINTER, SUNION, ZADD, ZRANGE, ZRANK and leaderboards
11. Redis Insight: browsing keys, running commands and profiling from the GUI

DAY 2 — Essential: Advanced data types, caching patterns and clients

New at this level

12. Bitmaps and HyperLogLog: SETBIT, BITCOUNT, PFADD and PFCOUNT for compact analytics
13. Geospatial indexes: GEOADD, GEOSEARCH and distance queries
14. Streams: XADD, XREAD, XRANGE, consumer groups with XREADGROUP and XACK
15. JSON documents: JSON.SET, JSON.GET and path queries on nested data
16. Transactions: MULTI, EXEC, DISCARD and optimistic locking with WATCH
17. Pub/Sub: PUBLISH, SUBSCRIBE, pattern subscriptions and sharded pub/sub
18. Scripting: EVAL with Lua and Redis Functions for atomic server-side logic
19. Pipelining: batching commands to cut round trips
20. Client libraries: redis-py, Jedis or Lettuce, node-redis and go-redis, connection pools and timeouts
21. Caching patterns: cache-aside, write-through, write-behind and cache stampede protection
22. Memory limits and eviction: maxmemory, allkeys-lru, volatile-ttl and other eviction policies
23. Rate limiting and locks: fixed and sliding window limiters, SET NX locks and their caveats

PRACTICE

Hands-on labs

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

FOUNDATION

Build a leaderboard and session store

Install Redis, store user sessions in hashes with TTLs, and build a real-time leaderboard with sorted sets using redis-cli and Redis Insight.

ESSENTIAL

Add caching and a job queue

Put a cache-aside layer with TTLs in front of a database-backed API, and process background jobs from a Redis stream with a consumer group.

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 Redis 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 REDIS 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/redis/

ENROL OR RESERVE A SEAT
Redis Essential Training

WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com

Next step after this level: Redis Intermediate Training - Make Redis durable, highly available and secure, add search and vector queries, and monitor and troubleshoot production instances.