DevOpsSchool

Course curriculum · November 2026

LEVEL 04 OF 04 · ADVANCED

# Jmeter Advanced Training

Plan and run enterprise performance programmes with JMeter, generate large-scale load, find bottlenecks and report capacity with confidence.

| | | |
|---|---|---|
| LIVE ONLINE<br>**Max 8-10 hours** | CORPORATE (DAY-WISE)<br>**5 days · Days 1-5** | 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 · 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 | 49 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/jmeter/jmeter-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 Jmeter course path, you will be able to:

1

### Build realistic JMeter scripts

Create correlated, data-driven test plans that model real user and API behaviour.

2

### Run load at scale

Execute distributed, containerised and CI-driven JMeter tests with live monitoring.

3

### Turn results into decisions

Analyse percentiles, find bottlenecks and report capacity and regression risks clearly.

WHAT THE ADVANCED LEVEL ADDS

### Strategy, large-scale load, bottlenecks and governance

**Hands-on:** Capstone: capacity test and report. Model production workload for a multi-tier application, drive distributed load to saturation, locate the bottleneck with monitoring data and present a capacity report.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Intermediate level, or equivalent hands-on experience.
- You can already: Extend JMeter with Groovy, run distributed and containerised load, gate builds in CI and watch results live in Grafana.
- 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

# Jmeter Advanced Training agenda

49 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: Performance testing basics and first JMeter test

Included from Foundation

1. Performance testing concepts: load, stress, spike, soak and scalability tests and when to use each
2. Performance metrics: response time, throughput, percentiles such as p90, p95 and p99, error rate and concurrency
3. Apache JMeter overview: open-source Java tool, supported protocols HTTP, JDBC, JMS, FTP, LDAP and TCP, GUI and CLI modes
4. Installing JMeter: JDK prerequisite, binary download, jmeter.properties, user.properties and the Plugins Manager
5. Test plan structure: thread groups, request elements, listeners, config elements, assertions, timers, scope and order
6. Thread group settings: number of threads, ramp-up period, loop count, duration and startup delay
7. HTTP Request element: method, path, parameters, body data, HTTP Request Defaults and HTTP Header Manager
8. Browser behaviour: HTTP Cookie Manager and HTTP Cache Manager to mimic real users
9. Recording a script: HTTP(S) Test Script Recorder, browser proxy settings and the JMeter CA certificate
10. Listeners for debugging: View Results Tree, Summary Report and Aggregate Report
11. First load test: run a small test against a demo web app and interpret response times and errors

## DAY 2 — Essential: Correlation, data, assertions, timers and CLI reports

Included from Essential

12. Correlation: extracting dynamic values with Regular Expression, JSON, CSS Selector and Boundary extractors
13. Parameterisation: CSV Data Set Config, user-defined variables and sharing modes across threads
14. JMeter functions: __Random, __time, __UUID, __P, __counter and __groovy
15. Assertions: Response, JSON, Duration and Size assertions and their overhead
16. Timers and think time: Constant, Uniform Random, Gaussian Random, Constant Throughput and Precise Throughput timers
17. Logic controllers: Transaction, Loop, If, While, Once Only, Simple and Throughput controllers
18. Authentication flows: HTTP Authorization Manager, form logins, session cookies and bearer tokens
19. REST API testing: JSON request bodies, headers, JSON Extractor and JSON assertions
20. Database testing: JDBC Connection Configuration and JDBC Request elements
21. CLI mode: jmeter -n -t -l -e -o, .jtl result files and overriding properties with -J
22. HTML dashboard report: APDEX, response times over time, percentiles, throughput and error analysis
23. Script organisation: test fragments, Include and Module controllers, .jmx files in version control

## DAY 3 — Intermediate: Groovy scripting, distributed runs, CI and monitoring

Included from Intermediate

24. JSR223 scripting with Groovy: pre and post processors, vars, props, ctx and prev objects
25. Distributed testing: controller and remote jmeter-server nodes, RMI and SSL keystore setup, result collection
26. Containerised load generators: JMeter in Docker images and Kubernetes jobs for scaling out
27. CI/CD integration: JMeter in Jenkins, GitHub Actions or GitLab CI, jmeter-maven-plugin and failing builds on thresholds

28. Real-time monitoring: Backend Listener to InfluxDB with Grafana dashboards
29. Server-side monitoring: correlating load with Prometheus metrics, APM traces and the PerfMon plugin
30. Protocols beyond HTTP: JMS, FTP, LDAP, TCP and SMTP requests, WebSocket and gRPC through plugins
31. Load shaping plugins: Ultimate Thread Group, Concurrency Thread Group and Throughput Shaping Timer
32. Workload modelling: open vs closed models, arrival rates, Little's Law and deriving load from production analytics
33. Test data management: generating, partitioning and cleaning data for distributed runs
34. Security in tests: storing credentials outside scripts, TLS client certificates and keystore configuration
35. Troubleshooting scripts: Debug PostProcessor, View Results Tree, jmeter.log and common correlation and encoding errors
36. Load generator tuning: JVM heap settings, disabling heavy listeners and saving results as CSV

**DAYS 4-5** **Advanced: Strategy, large-scale load, bottlenecks and governance** **New at this level**

37. Performance test strategy: SLAs and SLOs, entry and exit criteria, production-like environments
38. Large-scale load generation: sizing generators, threads per engine, bandwidth limits and coordination
39. Cloud load testing: JMeter on cloud VMs or Kubernetes, and managed services that run .jmx files
40. Bottleneck analysis: CPU, memory, GC pauses, database locks and connection pools, thread dumps and APM traces
41. Capacity planning: stress to the breaking point, saturation curves and limits of extrapolation
42. Soak and resilience testing: long runs for leaks, failover under load and controlled chaos experiments
43. Advanced result analysis: percentiles vs averages, coordinated omission and baseline comparison
44. Performance regression in pipelines: baselines, automated comparison, trend dashboards and quality gates
45. Microservices performance: per-service and end-to-end tests, mocking dependencies with WireMock
46. Browser-level checks: Selenium WebDriver plugin and Lighthouse metrics alongside protocol-level load
47. Tool landscape and migration: moving scripts from LoadRunner, and when k6, Gatling or Locust fit better
48. Governance: script standards, reusable libraries, environment booking and stakeholder reporting
49. Capstone: end-to-end performance test of a multi-tier app with distributed load, monitoring and a findings report

PRACTICE

## Hands-on labs

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

FOUNDATION **Record and run a first test**

Record a browsing journey with the HTTP(S) Test Script Recorder, clean it into a test plan with a thread group and run a small load test with listeners.

ESSENTIAL **Build a data-driven API test**

Script a login-to-checkout API journey with CSV test data, correlation, assertions and timers, then run it in CLI mode and publish the HTML dashboard.

INTERMEDIATE **Run distributed load from CI**

Run a JMeter test across containerised load generators from a CI pipeline, stream results to InfluxDB and Grafana and fail the build on SLA breaches.

ADVANCED

**Capstone: capacity test and report**

Model production workload for a multi-tier application, drive distributed load to saturation, locate the bottleneck with monitoring data and present a capacity report.

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 Jmeter 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 JMETER 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/jmeter/

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