DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

Apache Tomcat Server Intermediate Training

Tune Tomcat threads and memory, read its logs, put Nginx in front for load balancing and automate deployments.

LIVE ONLINE **Max 8-10 hours**	CORPORATE (DAY-WISE) **3 days · Days 1-3**	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 · This curriculum	5 days · Next step

INSIDE THIS CURRICULUM

What you will achieve	Outcomes and level focus
Who should attend	Audience and prerequisites
Agenda	35 topics · Foundation to Intermediate
Hands-on labs	3 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/tomcat/apache-tomcat-server-intermediate-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 Apache Tomcat Server course path, you will be able to:

1

Install and configure Tomcat

Install, configure and deploy applications on Apache Tomcat on Windows and Linux.

2

Secure and tune servers

Enable SSL, virtual hosts and realms, harden the server and tune threads and memory for production load.

3

Deliver high availability

Run load-balanced, clustered Tomcat with sticky sessions and session replication.

WHAT THE INTERMEDIATE LEVEL ADDS

Logging, tuning, load balancing and automation

Hands-on: Load balance Tomcat instances behind Nginx. Run two Tomcat instances on Linux, place Nginx in front as a load balancer, tune thread pools and verify behaviour under a short load test.

WHO SHOULD ATTEND

- Regular Apache Tomcat Server users who want to automate, integrate and manage it at a deeper level.
- Specialists who support Apache Tomcat Server for colleagues or customers.
- Leads preparing Apache Tomcat Server for wider use across projects.

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Secure Tomcat, enable SSL on Windows and Linux and host several sites on one server with virtual hosts.
- 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 INTERMEDIATE

Apache Tomcat Server Intermediate Training agenda

35 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: Servlet container concepts, installation and Manager app

Included from Foundation

1. Overview of servlet containers: Servlets, JSP, Jakarta EE and how Tomcat differs from full application servers
2. Tomcat versions: 9.0 (Java EE 8), 10.1 (Jakarta EE 10) and 11.0 (Jakarta EE 11) and their Java requirements
3. Architecture: Server, Service, Connector, Engine, Host and Context components and request flow
4. Setup requirements: choosing a JDK, JAVA_HOME, CATALINA_HOME and CATALINA_BASE
5. Installation on Windows: service installer and zip distribution, service.bat and the Tomcat monitor
6. Installation on Linux: binary tarball, dedicated tomcat user, file permissions and a systemd unit
7. Configuration files and binaries walkthrough: server.xml, web.xml, context.xml, tomcat-users.xml and bin scripts
8. Directory layout: bin, conf, lib, logs, webapps, work and temp and what belongs in each
9. Starting and stopping: startup and shutdown scripts, catalina.sh run and JVM options in setenv
10. Tomcat Manager application: manager-gui and manager-script roles and deploying, reloading and undeploying apps
11. First deployment: dropping a WAR into webapps, context paths and checking catalina and localhost logs

DAY 2 — Essential: Security basics, SSL and virtual hosts

Included from Essential

12. Security basics: removing default apps, restricting Manager with RemoteAddrValve, shutdown port and server banner
13. Realms and authentication: UserDatabaseRealm, DataSourceRealm, JNDIRealm and LockOutRealm
14. Enabling SSL: creating a keystore with keytool and configuring a security certificate for a website
15. Enabling SSL part 2: PEM keys and certificate chains, SSLHostConfig, TLS protocols and cipher choices
16. SSL configuration on Linux: CA-issued or Let's Encrypt certificates, file permissions and HTTP to HTTPS redirects
17. Connectors: HTTP/1.1 NIO and NIO2, HTTP/2 upgrade and AJP with secretRequired
18. Virtual host overview: the Host element, appBase, aliases and name-based hosting
19. Virtual hosts in shared web hosting: multiple sites on Windows with separate appBase, logs and Manager
20. Virtual hosts on Linux: per-host directories, ownership and testing with DNS or hosts entries
21. Context configuration: context.xml, docBase, reloadable and parallel deployment with versioned WAR names
22. JNDI data sources: JDBC connection pool settings in context.xml and testing connectivity
23. Access logging: AccessLogValve patterns per host and what to capture for audits

DAY 3 — Intermediate: Logging, tuning, load balancing and automation

New at this level

24. Logging: JULI, logging.properties, log rotation and switching to Log4j 2 for structured logs
25. Tuning parameters: maxThreads, minSpareThreads, acceptCount, maxConnections, timeouts and shared executors
26. JVM tuning: heap sizing, G1 and ZGC collectors and GC logging configured in setenv
27. Monitoring: JMX, the JMX proxy servlet, JConsole, VisualVM and a Prometheus JMX exporter
28. Reverse proxy with Nginx: proxy_pass, forwarded headers and RemoteIpValve for real client IPs

29. Nginx load balancing on Windows: upstream groups across multiple Tomcat instances
30. Nginx load balancing on Linux: upstream, passive health checks and failover behaviour
31. Multiple instances: one CATALINA_HOME with several CATALINA_BASE directories and ports
32. Automated deployments: Manager text API with curl, Maven deploy plugin and Ansible roles
33. Troubleshooting: thread dumps with jstack, redeploy memory leaks and OutOfMemoryError analysis
34. Containers: running the official Tomcat image in Docker with externalised configuration
35. Patch management: tracking Tomcat security advisories and applying point releases safely

PRACTICE

Hands-on labs

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

FOUNDATION

Install Tomcat and deploy a web app

Install Tomcat on a Linux VM as a systemd service, enable the Manager application for an admin user and deploy a WAR file through it.

ESSENTIAL

Serve two HTTPS sites from one Tomcat

Configure two name-based virtual hosts on Linux, each with its own application and TLS certificate, and redirect all HTTP traffic to HTTPS.

INTERMEDIATE

Load balance Tomcat instances behind Nginx

Run two Tomcat instances on Linux, place Nginx in front as a load balancer, tune thread pools and verify behaviour under a short load test.

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 Apache Tomcat Server levels, plus 20+ more courses and 50+ tools, at your own pace.	**INR 833/month** billed yearly at INR 9,996
Corporate (day-wise)	3 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 APACHE TOMCAT SERVER 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/tomcat/

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Apache Tomcat Server Intermediate Training

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Next step after this level: Apache Tomcat Server Advanced Training - Build highly available Tomcat clusters with session replication, harden them to benchmark level and plan version migrations.