DevOpsSchool

Course curriculum · November 2026

LEVEL 03 OF 04 · INTERMEDIATE

Database Security Intermediate Training

Harden SQL Server and MongoDB against CIS Benchmarks, automate compliance scans and stream database activity into a SIEM.

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	36 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/databases/database-security-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 Database Security course path, you will be able to:

1

Harden SQL and NoSQL

Apply CIS-aligned hardening, encryption and least-privilege access to SQL Server and MongoDB.

2

Audit every sensitive action

Configure native database auditing and stream it to a SIEM with alerts for risky activity.

3

Prove compliance with evidence

Map database controls to GDPR, PCI DSS and DPDP requirements and produce audit-ready evidence.

WHAT THE INTERMEDIATE LEVEL ADDS

CIS hardening, monitoring and automated compliance

Hands-on: Score and remediate against CIS. Run a CIS benchmark scan on both databases, fix the failed controls with scripts, and ship audit events to a SIEM dashboard with alerts.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Essential level, or equivalent hands-on experience.
- You can already: Configure authentication, least-privilege roles, encryption and native auditing on SQL Server and MongoDB for everyday operations.
- 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

Database Security Intermediate Training agenda

36 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: Database fundamentals, threats and engine architecture

Included from Foundation

1. Database fundamentals: data models, tables and documents, transactions, ACID and the role of databases in business systems
2. DBMS and RDBMS: schemas, primary and foreign keys, SQL, normalisation and how relational engines enforce integrity
3. NoSQL databases: document, key-value, wide-column and graph models; BASE versus ACID trade-offs
4. Common threats and challenges: SQL and NoSQL injection, excessive privileges, weak credentials, unpatched engines, exposed ports
5. Database security issues: data breaches, insider misuse, ransomware, stolen backups and misconfigured cloud databases
6. Database administrator role: security duties, separation of duties, change control and least privilege for DBAs
7. Controls and policies: preventive, detective and corrective controls; access, password, retention and backup policies
8. MS SQL Server architecture: instances, system databases, protocol layer, relational engine, storage engine and SQLOS
9. SQL Server security model: logins versus users, server and database roles, schemas, Windows and SQL authentication
10. MongoDB architecture: mongod, BSON documents and collections, replica sets, sharding with mongos and config servers
11. MongoDB security model: SCRAM authentication, role-based access control, built-in roles, bindIp and default exposure risks
12. Lab environment: SQL Server 2022 and MongoDB Community in Docker, connecting with sqlcmd, SSMS and mongosh

DAY 2 Essential: Authentication, encryption, auditing and access control

Included from Essential

13. Authentication hardening: password policy (CHECK_POLICY), contained users, Microsoft Entra ID logins, MongoDB SCRAM-SHA-256
14. Authorization: GRANT, DENY and REVOKE, least-privilege role design, MongoDB custom roles and privilege actions
15. Auditing in SQL database: SQL Server Audit, server and database audit specifications, targets, reading sys.fn_get_audit_file
16. Auditing in NoSQL database: MongoDB auditing in Enterprise and Atlas, audit filters, Percona Server for MongoDB audit log
17. Encryption in transit: TLS certificates for SQL Server and MongoDB, forcing encrypted connections, verifying cipher suites
18. Encryption at rest: SQL Server TDE and backup encryption, MongoDB encrypted storage engine with KMIP key management
19. Column and field protection: Always Encrypted, Dynamic Data Masking, MongoDB client-side field level and Queryable Encryption
20. Row-level security: SQL Server security predicates, MongoDB views and field restrictions for multi-tenant data

21. Secure configuration: surface area reduction, disabling xp_cmdshell and CLR, MongoDB security.authorization enabled
22. Injection defence: parameterised queries, stored procedures, ORMs, MongoDB operator injection ($where, $ne) and input validation
23. Backup security: encrypted backups, access-controlled backup storage, retention rules and regular restore tests
24. Team workflow: access requests, periodic privilege reviews, change tickets and a documented security baseline

DAY 3 **Intermediate: CIS hardening, monitoring and automated compliance** **New at this level**

25. CIS Benchmark for MS SQL Server: Level 1 and Level 2 profiles, database hardening settings, applying and verifying each control
26. CIS Benchmark for MongoDB: database hardening for authentication, access control, encryption, auditing and OS settings
27. Automated compliance scanning: CIS-CAT, SQL vulnerability assessment, InSpec and OpenSCAP profiles in scheduled jobs
28. Vulnerability management: CVE tracking, SQL Server cumulative updates, MongoDB patch releases and upgrade planning
29. Privileged access management: just-in-time DBA access, password vaulting, session recording and break-glass accounts
30. Database activity monitoring: Extended Events, MongoDB profiler and logs, forwarding audits to Splunk, Sentinel or Wazuh
31. Detection use cases: failed logins, privilege escalation, mass data export, schema changes and off-hours admin activity
32. Secrets management: HashiCorp Vault database secrets engine, dynamic credentials and automatic rotation
33. Network controls: firewalls, private endpoints, IP allow lists and hardening default ports 1433 and 27017
34. Security testing: sqlmap and NoSQL injection testing in a lab, configuration review scripts and findings reports
35. Cloud database security: Azure SQL, Amazon RDS and MongoDB Atlas controls under the shared responsibility model
36. Troubleshooting: login failures, certificate errors, ownership chaining, missing audit events and permission conflicts

PRACTICE

Hands-on labs

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

FOUNDATION **Map the attack surface of two databases**
Install SQL Server and MongoDB in containers, create logins and users, and document every open port, default account and privilege you find.

ESSENTIAL **Lock down and audit both engines**
Enable TLS, least-privilege roles, masking and native auditing on SQL Server and MongoDB, then prove each control by querying the audit logs.

INTERMEDIATE **Score and remediate against CIS**
Run a CIS benchmark scan on both databases, fix the failed controls with scripts, and ship audit events to a SIEM dashboard with alerts.

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 Database Security 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 DATABASE SECURITY 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/databases/

ENROL OR RESERVE A SEAT
Database Security Intermediate Training

WHATSAPP · INDIA
+91 99057 40781

WHATSAPP · USA
+1 (469) 756-6329

EMAIL
contact@DevOpsSchool.com

Next step after this level: Database Security Advanced Training - Design an enterprise database security programme covering classification, compliance, key management, resilience and incident response.