DevOpsSchool

Course curriculum · November 2026

LEVEL 02 OF 04 · ESSENTIAL

Microservices Essential Training

Build, connect and deploy microservices with gateways, service discovery, REST or GraphQL APIs, Docker and Kubernetes.

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/microservice/microservices-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 Microservices course path, you will be able to:

1

Design sound service boundaries

Decompose systems with domain-driven design and choose the right patterns and protocols for each interaction.

2

Build and run microservices

Containerise, secure, test and deploy microservices on Kubernetes through automated CI/CD pipelines.

3

Operate microservices at scale

Keep production services fast, resilient and observable with service mesh, data patterns and governance.

WHAT THE ESSENTIAL LEVEL ADDS

Patterns, communication, containers and first deployment

Hands-on: Deploy a microservices app to Kubernetes. Containerise three services, expose them through an API gateway and deploy them to a Kubernetes cluster with service discovery.

WHO SHOULD ATTEND

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

BEFORE YOU START

- The Foundation level, or equivalent hands-on experience.
- You can already: Explain when microservices fit, design service boundaries with domain-driven design and run a first two-service application.
- 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

Microservices 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: Microservices concepts, design principles and decomposition

Included from Foundation

1. Introduction to microservices: definition of microservices architecture and its evolution from SOA
2. Advantages and disadvantages of microservices: independent deployment and team autonomy versus distributed complexity
3. Comparison with monolithic architecture: modular monoliths, when not to split and the cost of distribution
4. Use cases of microservices: typical scenarios, organisational fit and Conway's law
5. Common technologies employed in microservices: REST, JSON, XML, gRPC and AMQP
6. The architecture of a microservice: presentation components, business logic, database access logic and application integration
7. Principles of microservices design: single responsibility, loose coupling, high cohesion and database per service
8. Domain-driven design (DDD): bounded contexts, aggregates, ubiquitous language and context maps
9. Business capabilities identification and decomposition: splitting by capability and subdomain
10. Modelling microservices: service boundaries, API contracts and data ownership
11. First working example: two REST services in Spring Boot or Python calling each other locally

DAY 2 — Essential: Patterns, communication, containers and first deployment

New at this level

12. Design patterns for microservices: API gateway, backends for frontends, strangler fig, saga and CQRS
13. Microservices architecture and infrastructure: containers, registries, config servers and platform services
14. API gateway, service registry and discovery: gateway routing and client-side versus server-side discovery
15. Communication protocols: HTTP/REST, gRPC, GraphQL and AMQP messaging, and choosing the right protocol
16. Synchronous and asynchronous communication: request-response versus events, choreography versus orchestration
17. RESTful API and GraphQL: resource design, OpenAPI specifications, versioning and GraphQL schemas
18. Integrating multiple microservices: keeping it simple and avoiding breaking changes with tolerant readers
19. Dealing with legacy systems: anti-corruption layers and incremental strangler migration
20. Building microservices with Docker and Kubernetes: Dockerfiles, images, Deployments and Services
21. Externalised configuration: environment variables, ConfigMaps and Secrets per environment
22. Testing and deploying microservices: unit tests, mock tests and a basic deployment pipeline
23. Hands-on workshop: set up a microservices application and build and deploy it using Docker and Kubernetes

PRACTICE

Hands-on labs

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

FOUNDATION

Decompose a monolith on paper

Model an online store with DDD bounded contexts, define service APIs and run two of the services locally.

ESSENTIAL

Deploy a microservices app to Kubernetes

Containerise three services, expose them through an API gateway and deploy them to a Kubernetes cluster with service discovery.

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 Microservices 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 MICROSERVICES 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/microservice/

ENROL OR RESERVE A SEAT
Microservices Essential Training

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Next step after this level: Microservices Intermediate Training - Secure, observe and harden microservices with events, OAuth 2.0, resilience patterns, CI/CD pipelines and contract testing.