

Microservices Architecture

Learn the principles and practices of microservices architecture.

Category: Deployment · Duration: 1 week

WHO IT IS FOR

- Project managers, Scrum masters and team leads
- Software architects and senior developers
- Practitioners who already use it daily and want to go further

This course provides an in-depth understanding of microservices architecture, including its principles, design patterns, and implementation best practices. Gain hands-on experience in building microservices-based applications and learn how to overcome common challenges. Discover how microservices can enhance application scalability, modularity, and agility.

Prerequisites

Basic understanding of software architecture and development concepts.

Syllabus

- Introduction to microservices architecture
- Benefits and challenges of microservices
- Microservices design principles
- Designing and implementing microservices
- Microservices communication and orchestration
- Service discovery and registration
- Microservices security and authentication
- Microservices testing and monitoring
- Building scalable and resilient microservices
- Containerization and deployment of microservices
- Using API gateways in microservices architecture
- Managing data in microservices-based applications
- Event-driven architecture with microservices
- Microservices deployment strategies
- Continuous integration and delivery with microservices

- Managing microservices at scale
- Monitoring and troubleshooting microservices
- Migration and modernization of monolithic applications
- Microservices and DevOps practices
- Case studies and best practices