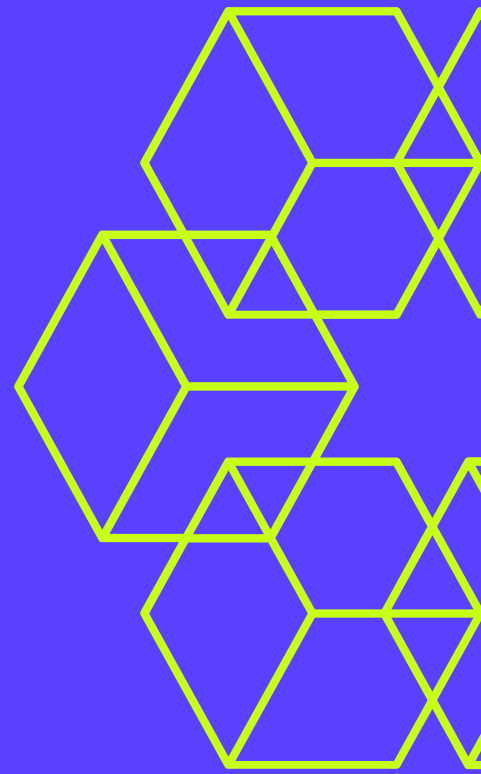




# Microservices Course Contents



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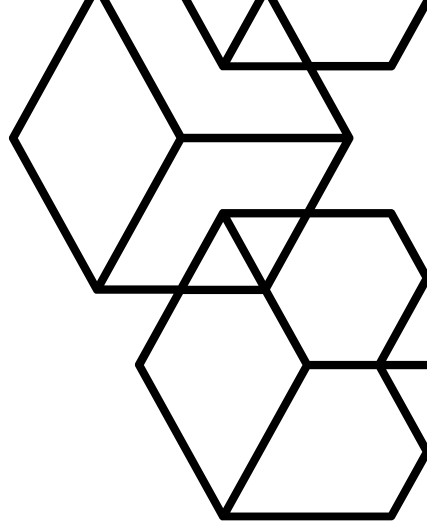
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## CHAPTER 1 : INTRODUCTION TO MICROSERVICES

- What are microservices?
- Benefits of microservices
- Microservices vs monolithic architecture

## CHAPTER 2 : DESIGNING MICROSERVICES

- Domain-driven design
- Decomposing the system
- API gateway pattern



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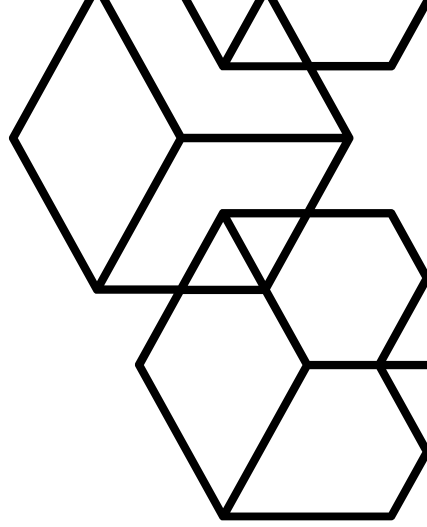
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## CHAPTER 3 : IMPLEMENTING MICROSERVICES

- Containerization with Docker
- Service discovery
- Load balancing

## CHAPTER 4 : MICROSERVICES COMMUNICATION

- RESTful communication
- Messaging systems
- Event-driven architecture



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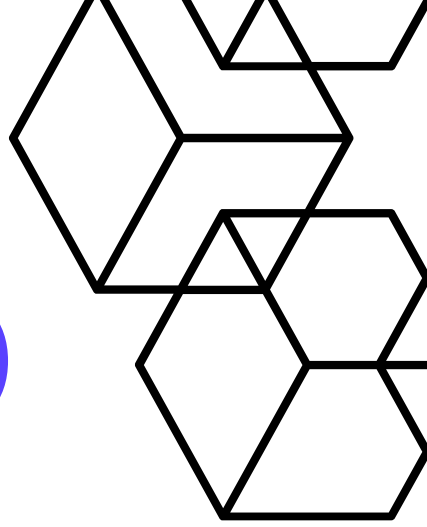
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## CHAPTER 5 : MONITORING AND TESTING MICROSERVICES

- Logging and tracing
- Health checks
- Testing strategies

## CHAPTER 6 : SECURITY IN MICROSERVICES

- Security threats and vulnerabilities
- Identity and access management
- Securing communication channels



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## CHAPTER 7 : SCALING MICROSERVICES

- Horizontal and vertical scaling
- Autoscaling
- Design patterns for scalability

