PROLOGUE

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dev up

Introduction to Microservices

Understanding the Basics

What are microservices?

Modular Structure

What are microservices?

Modular Structure	Independent Functions

What are microservices?

Modular Structure

Independent Functions

Communication

What are microservices?

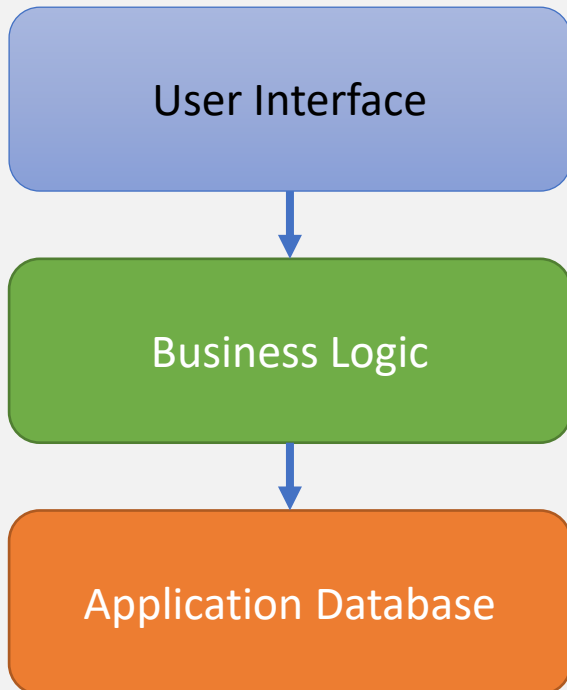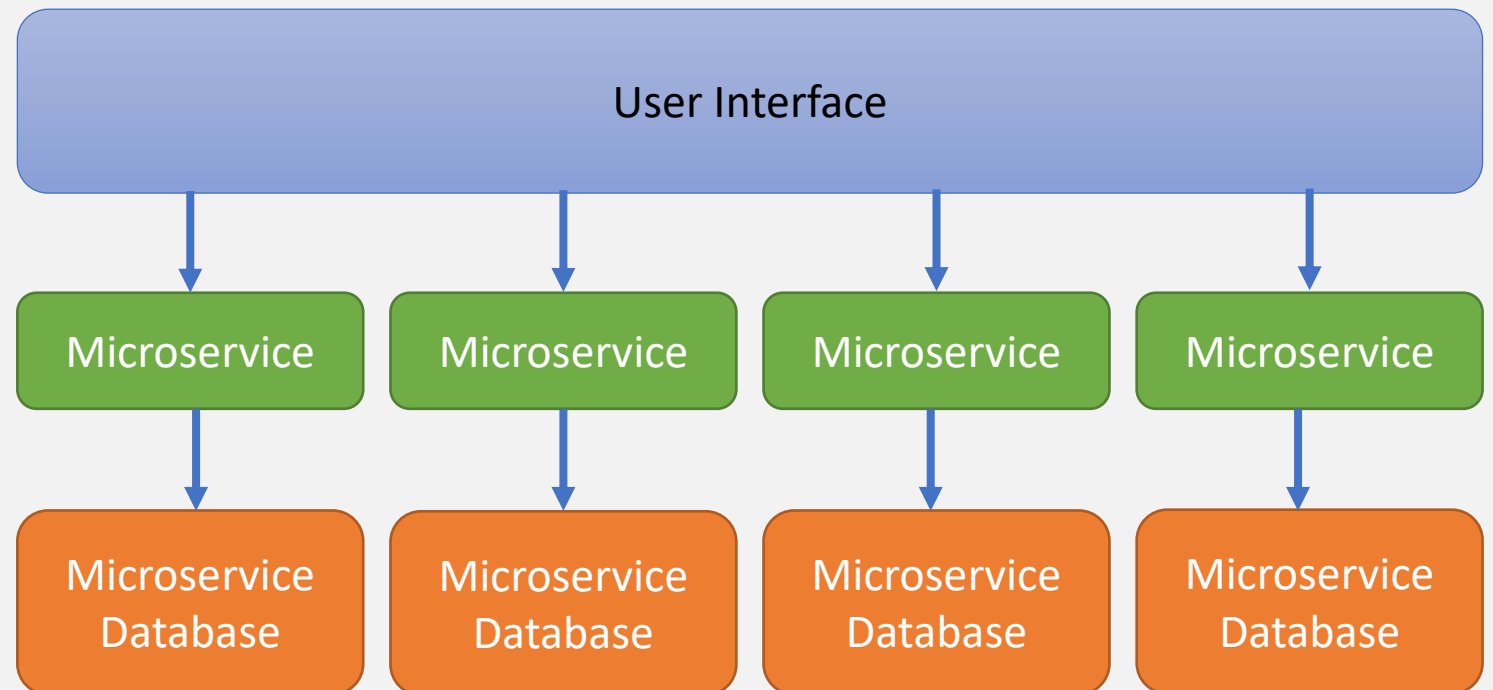| Modular Structure | Independent Functions | Communication | Flexibility |

Characteristics of Microservices

Autonomous

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Characteristics of Microservices

Autonomous

Specialized

TALELEARNCODE

CHADGREEN

Characteristics of Microservices

Autonomous

Specialized

Flexible Scaling

Characteristics of Microservices

Autonomous

Specialized

Flexible Scaling

Easy Deployment

Characteristics of Microservices

Autonomous

Specialized

Flexible Scaling

Easy Deployment

Decentralized

Characteristics of Microservices

Autonomous

Specialized

Flexible Scaling

Easy Deployment

Decentralized

Failure Resistance

Characteristics of Microservices

Autonomous

Specialized

Flexible Scaling

Easy Deployment

Decentralized

Failure Resistance

Evolutionary

Advantages of Microservices

Scalability

Advantages of Microservices

Scalability

Fault Isolation

Advantages of Microservices

Scalability	Fault Isolation	Enhanced Team Productivity

Advantages of Microservices

Scalability

Fault Isolation

Enhanced Team Productivity

Quick Deployment

Advantages of Microservices

Scalability

Fault Isolation

Enhanced Team Productivity

Quick Deployment

Cost Efficiency

Microservice Challenges

Complexity

Microservice Challenges

Complexity

Service Discovery and Communication

Microservice Challenges

| Complexity | Service Discovery and Communication | Data Management and Consistency |

Microservice Challenges

Complexity	**Service Discovery and Communication**	**Data Management and Consistency**	**Deployment and DevOps Automation**

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Microservice Challenges

Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation

Monitoring and Observability

Microservice Challenges

Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation

Monitoring and Observability

Service Resilience and Fault Tolerance

Microservice Challenges

Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation

Monitoring and Observability

Service Resilience and Fault Tolerance

Security

Who is using Microservices

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Who is using Microservices

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Who is using Microservices

Who is using Microservices

Conclusion

- Microservices offer several benefits but also come with their own set of challenges

- They are a good fit for complex, evolving applications due to their scalability and flexibility

Introduction to Event-Driven Architecture

Understanding the Basics