



Introduction to Microservices

Understanding the Basics







Modular Structure







Modular Structure

Independent Functions







Modular Structure

Independent Functions

Communication







Modular Structure

Independent Functions

Communication

Flexibility



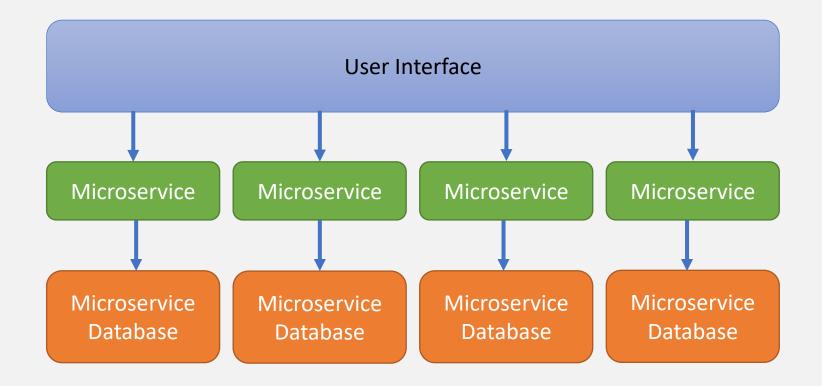




Monolithic Architecture

User Interface **Business Logic** Application Database

Microservices Architecture









Autonomous







Autonomous

Specialized







Autonomous

Specialized

Flexible Scaling







Autonomous

Specialized

Flexible Scaling

Easy Deployment







Autonomous

Specialized

Flexible Scaling

Easy Deployment

Decentralized







Autonomous

Specialized

Flexible Scaling

Easy Deployment

Decentralized

Failure Resistance







Autonomous

Specialized

Flexible Scaling

Easy Deployment

Decentralized

Failure Resistance

Evolutionary







Scalability







Scalability

Fault Isolation







Scalability

Fault Isolation

Enhanced Team Productivity







Scalability

Fault Isolation

Enhanced Team Productivity

Quick Deployment







Scalability

Fault Isolation

Enhanced Team
Productivity

Quick Deployment

Cost Efficiency







Complexity







Complexity

Service Discovery and Communication







Complexity

Service Discovery and Communication

Data Management and Consistency







Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation







Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation

Monitoring and Observability







Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation

Monitoring and Observability

Service Resilience and Fault Tolerance







Complexity

Service Discovery and Communication

Data Management and Consistency

Deployment and DevOps Automation

Monitoring and Observability

Service Resilience and Fault Tolerance

Security



















































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



