# Microservices vs Monolithic Architecture - Interview Questions

## Conceptual Questions

1. 1. What is a monolithic architecture?
2. 2. What are microservices?
3. 3. What are the key differences between monolithic and microservice architectures?
4. 4. What are the advantages of microservices over monolithic architecture?
5. 5. Can you list some disadvantages of microservices?
6. 6. When would you choose monolithic architecture over microservices?
7. 7. Explain the challenges of transitioning from monolithic to microservices.

## Technical Questions

1. 8. How do microservices communicate with each other?
2. 9. What is a service registry, and why is it used in microservices?
3. 10. What is the role of an API Gateway in microservices?
4. 11. How do you handle distributed transactions in microservices?
5. 12. What are some strategies for database management in microservices?
6. 13. How do you implement logging and monitoring in microservices?
7. 14. What are some microservices design patterns?

## Scenario-based Questions

1. 15. If one microservice fails, how would you ensure that the entire system does not crash?
2. 16. How do you scale microservices?
3. 17. How do you test a microservices-based application?
4. 18. What tools and frameworks do you use for building microservices?
5. 19. Can you describe a real-world use case of microservices?
6. 20. How do you handle versioning in microservices?