Test creaeting pdf from markdown

Message Queue - Discussion Topics

Architecture & Design

1. **When would you choose Kafka over RabbitMQ or SQS?**

   - Event streaming vs task queues

   - Replay requirements

   - Throughput considerations

2. **How do you decide between choreography and orchestration?**

   - Workflow complexity

   - Visibility requirements

   - Team boundaries

3. **What are the trade-offs of event sourcing?**

   - Storage growth

   - Query complexity

   - Event schema evolution

Real-World Scenarios

1. **Design an order processing pipeline for an e-commerce platform**

   - Service boundaries

   - Failure handling

   - Consistency guarantees

2. **How would you handle a consumer that can't keep up with message volume?**

   - Scaling strategies

- Backpressure mechanisms

- Priority queuing

3. **Your payment service is down - how do you handle pending orders?**

- Saga compensation

- Retry strategies

- Dead letter queue handling

Performance & Reliability

1. **How do you ensure exactly-once message processing?**

- Idempotency patterns

- Deduplication strategies

- Transaction support

2. **What's your approach to message schema evolution?**

- Backward compatibility

- Versioning strategies

- Consumer migration

Advanced Topics

1. **When would you use CQRS in your architecture?**

- Read/write ratio considerations

- Consistency requirements

- Complexity trade-offs

2. **How do you debug issues in an event-driven system?**

- Distributed tracing

- Correlation IDs

- Event replay for debugging