**Architecture patterns for Real-Time Event Driven Systems**

# Kafka Detailed Design and Ecosystem

<https://dzone.com/articles/kafka-detailed-design-and-ecosystem>

# Publish-Subscribe Model in Kafka

<https://dzone.com/articles/publish-subscribe-model-in-kafka>

# Best practices for kafka : producer and consumer

<https://dzone.com/articles/20-best-practices-for-working-with-apache-kafka-at>

# Kafka Producer Delivery Semantics

<https://dzone.com/articles/kafka-producer-delivery-semantics>

**Using Kafka as a Changelog**

## Kafka as a State Cache

**Kafka Consumer Architecture - Consumer Groups and Subscriptions**

<https://dzone.com/articles/kafka-consumer-architecture-consumer-groups-and-su>

**Kafka consumer Groups and Consumer Lag**

**Stream Processor Topology**

<https://dzone.com/articles/real-time-stream-processing-with-apache-kafkapart-1>

## Streaming analytics (real-time analytics)

<https://ibm-cloud-architecture.github.io/refarch-eda/rt-analytics/>

**Event Driven Design Patterns**

# Event sourcing

<https://ibm-cloud-architecture.github.io/refarch-eda/design-patterns/event-sourcing/>

# Command Query Responsibility Segregation (CQRS) pattern

<https://ibm-cloud-architecture.github.io/refarch-eda/design-patterns/cqrs/>