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Kafka 101

1 - What is Kafka?

Kafka is a distributed event store and a streaming platform. It began as an internal project at LinkedIn and now powers some of the largest data pipelines in the world.



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2 - Kafka Messages

Message is the basic unit of data in Kafka. It consists of headers, key, and value.

3 - Kafka Topics and Partitions

Every message goes to a particular Topic. Topics have multiple partitions.

4 - Advantages of Kafka

Kafka can handle multiple producers and consumers, while providing disk-based data retention and high scalability.

5 - Kafka Producer

Producers in Kafka create new messages, batch them, and send them to a Kafka topic.

6 - Kafka Consumer

Kafka consumers work together as a consumer group to read messages from the broker.

7 - Kafka Cluster

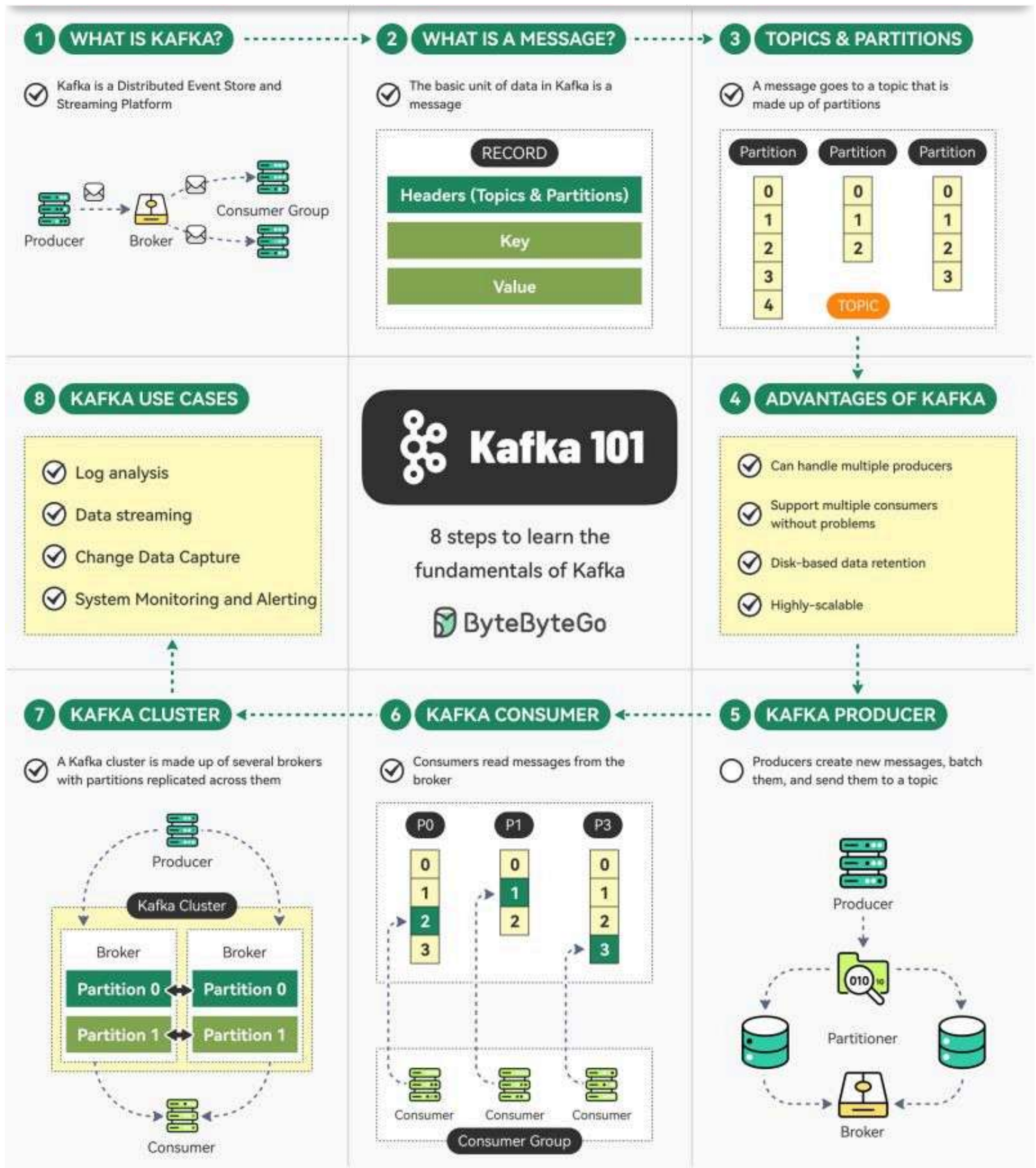
A Kafka cluster consists of several brokers where each partition is replicated across multiple brokers to provide high availability and redundancy.

8 - Use Cases of Kafka

Kafka can be used for log analysis, data streaming, change data capture, and system monitoring.



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