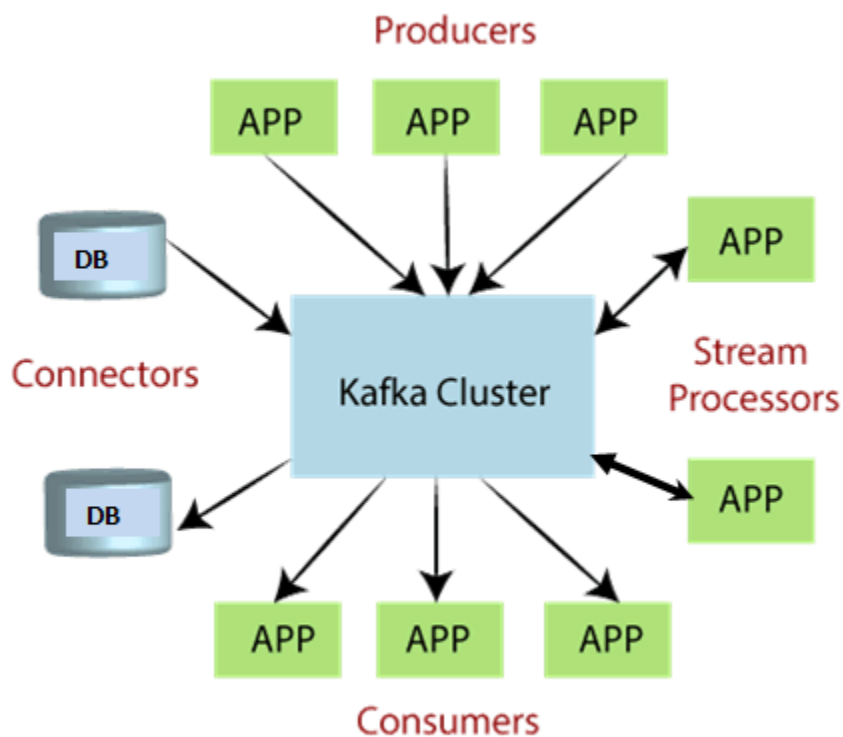# Apache Kafka

Apache Kafka is an open-source **stream-processing** software platform that is used to handle real-time data storage. It works as a broker between two parties, i.e., a sender and a receiver. It can handle about trillions of data events in a day.
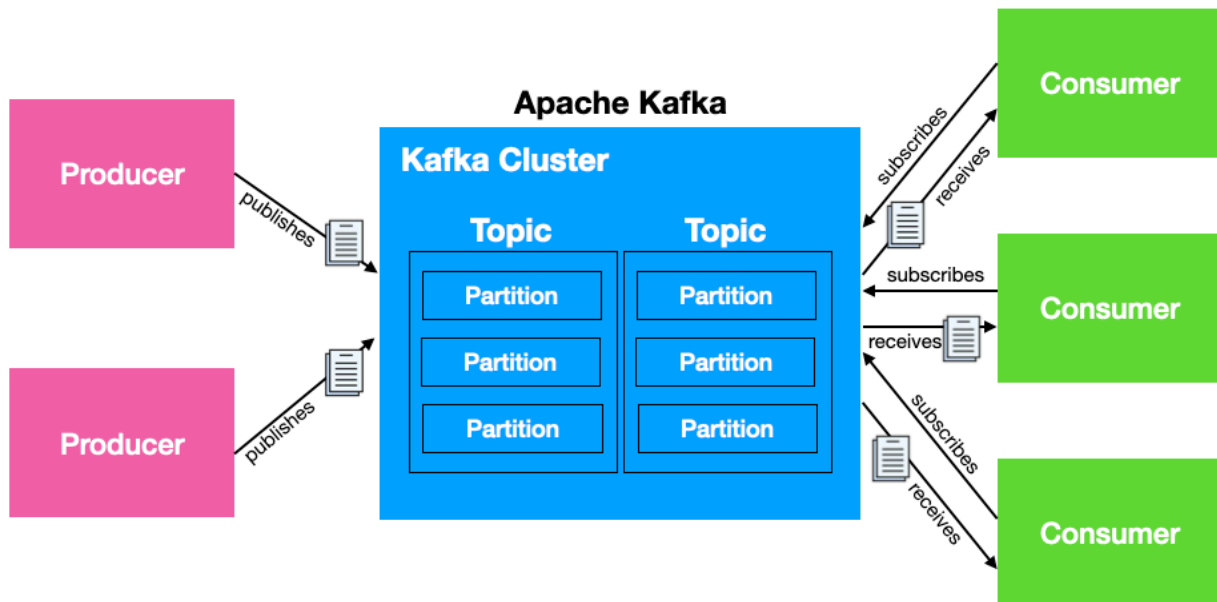It was originally developed by **LinkedIn**, and later it was donated to the Apache Software Foundation.

 i)Stream-processing:- It is a way of processing data across multiple connected systems at the same time. It allows different applications to handle data in parallel, so one record can be processed without waiting for the previous one to finish. Kafka makes it easier to manage and run this parallel processing efficiently.

Why Kafka?

- Apache Kafka can handle millions of message per second, which traditional databases like SQL cannot manage effectively. That's why kafka is used for real time data streaming and large scale data processing.
- Apache kafka acts as a bridge between the source system(Producer) and the target system(consumer). The Producer sends Data to kafka, which organizes and manage it , allowing the consumer to retrieve data efficiently.
- Apache kafka deliver extremely high performance with low latency of less than 10ms, making it a highly efficient and reliable software for real-time stream processing.

References:-https://www.javatpoint.com/apache-kafka
https://www.youtube.com/watch?v=ZJJHm_bd9Zo&list=LL&index=1
Google.com