

Kafka Streams

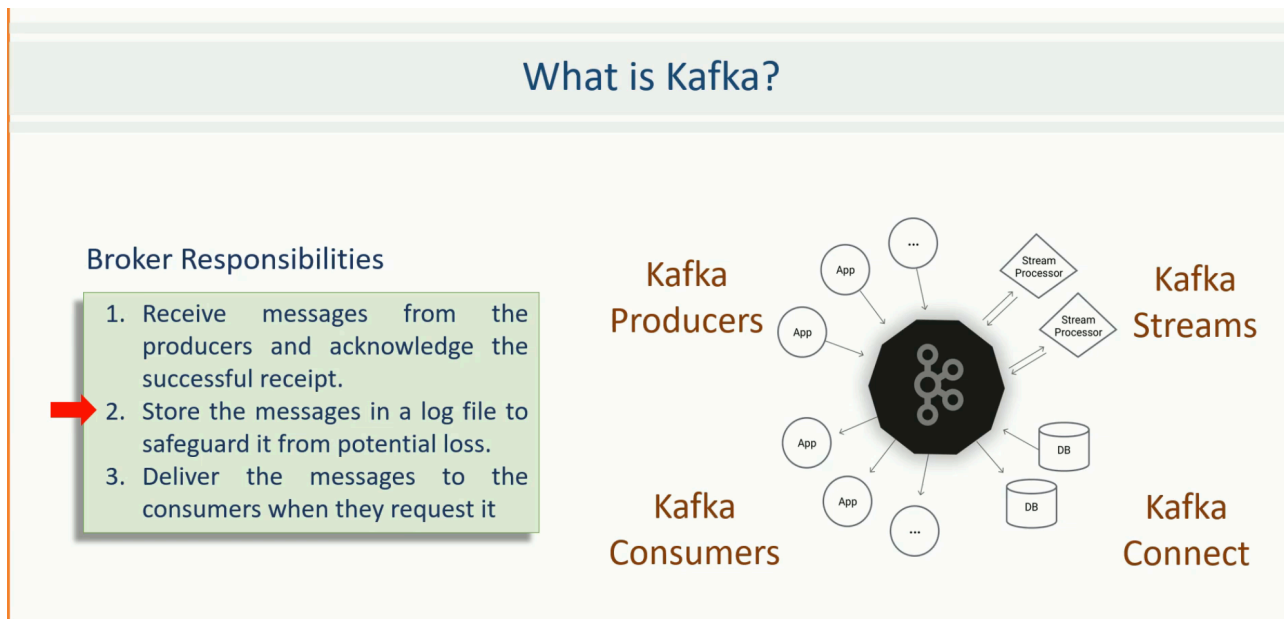
Tuesday, 20 August 2024

7:11 AM

Creating the stream and processing streams

Git link for Stream: <https://github.com/LearningJournal/Kafka-Streams-Master-Class>

Apache Kafka is horizontally scalable , fault -tolerant distributed streaming platform



The messages are stored in log file in segment , once the max segment size reaches the segment default size of the segment is 1GB or 1 week of data which ever is smaller.

Kakfa Broker will connect to zookeepr server and create the ephemeral node under broker/

Controller will keep checking the broker status , If broker left the session then it will resign t

Link for Kafka Documentation : <https://kafka.apache.org/documentation/>

Stream processing Steps

- Modelling the Events
- Transporting the Events
- Processing the events

Stream API uses Serdes approach to read and write the data. Since stream API intern consumer pattern. So it uses Serdes to do the serialize and de serialize

After reading the data we need to create the Topology using build method using Stre

ment file new log file will be created with unique name . The

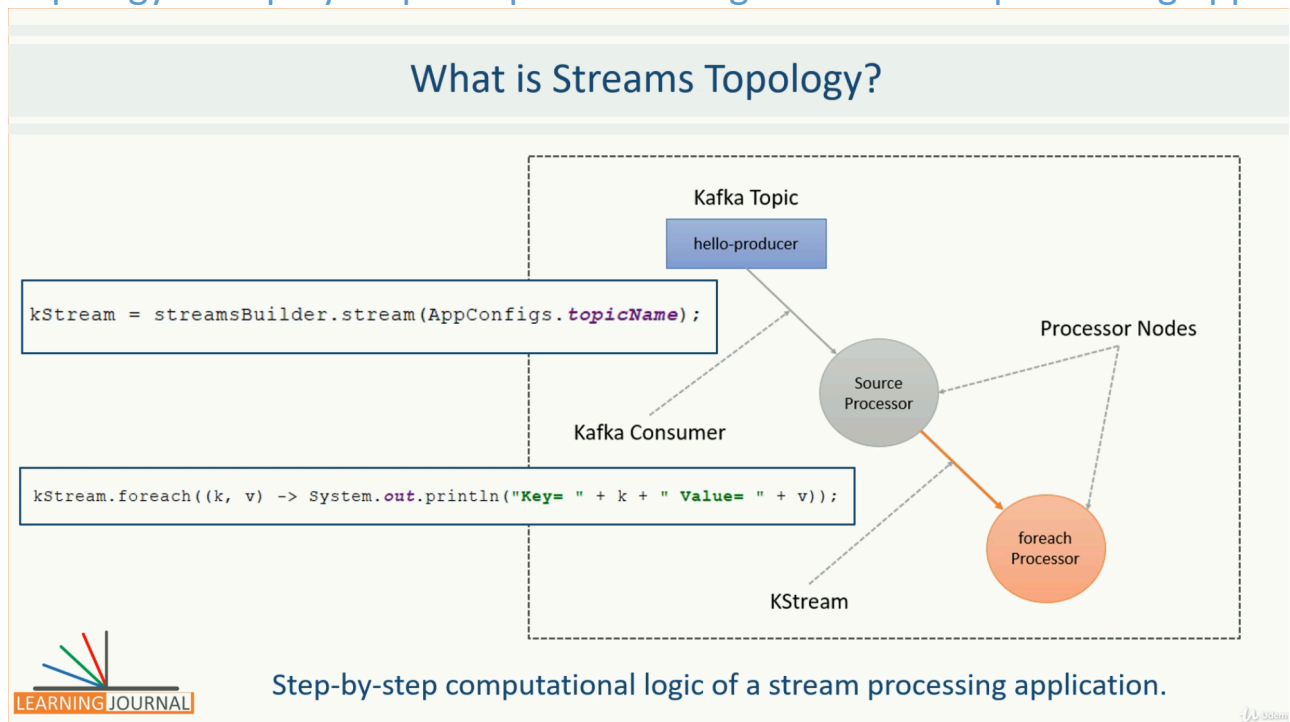
id path in zookeeper

he broker . Other brokers also try to connect

nally forms producer and

reamsBuilder class . It will return the Topology

Topology is step by step computational logic of a stream processing application



Kstream class has the following methods

filter, flatmap & map method inside Kstream will return new Kstream
foreach() and to() method will return void

Below is sample process of Kstream to process the request

