**Demo**

Do not forget to run docker (open docker desktop)

**Kafka**

Distributed streaming platform

Highly scalable

Fault tolerant

Real time event driven application

Kafka runs a cluster

In Kafka, when messages are sent to the topic, they don’t disappear. They can wait there a few minutes, hours, days, forever.

A diagram of a software company

Description automatically generated

Topic is a collection of events. Messages are sent to and read from specific topics.

Replicated and partitioned (one topic can span across multiple nodes)

Durable – hours, days, years, forever -> unlike a message queue, where if it is gone when read from

We can have multiple consumers reading from the same topic.

A rectangular object with text

Description automatically generated

Topic is a log (ordered sequences of events), kafka helps manage logs. Can group, aggregate, filter events in the topic

A screenshot of a computer

Description automatically generated

One topic partitioned into two nodes (or zookeepers).

Zookeeper is the broker (or node) – can connect to any cluster in kafka

A screen shot of a computer

Description automatically generated

Create kafka cluster

A computer screen shot of a computer code

Description automatically generated

*# KAFKA\_LOG\_RETENTION\_MS: 10000  
# KAFKA\_LOG\_RETENTION\_CHECK\_INTERVAL\_MS: 5000*