1. **Def**: Apache Kafka is Distributed Streaming Platform.
2. **Creating Realtime Streams:** Bringing data from **source** to **Kafka Server**.
3. **Continuous Stream of Data**: When data is flowing continuously in **a given timeframe**.
4. **Realtime Data Processing**: Not accumulating data but being processed as reaching the stream.
5. Single/ Multi-Node Kafka Cluster.
6. Consumer Group.
7. Command Line Kafka Producer & Consumer.
8. Consumer Workload Sharing.
9. **Kafka Flavors**:
   1. **Open Source** - Apache Kafka (**operational issues** or **open bugs, infrastructure problems**)
   2. **Commercial Distribution**: Confluent.io (Commercial Distribution, Community Edition : Free)
   3. **Managed Service** - Confluent Cloud, Amazon MSK (Managed Streaming for Apache Kafka), avion.io by **Managed Service Provider**.

Open-Source Distribution/Binary, Kafka Admins, Infrastructure Experts.

1. Data Streams.
2. Apache Zookeeper Server, Zookeeper Configuration File. Zookeeper is DB for Kafka Brokers.
3. Console Producer/Consumer Tool.
4. **Batch Files**:
   1. kafka-topics.bat
   2. kafka-console-producer.bat
   3. kafka-console-consumer
5. **Partition**: The # of parts a topic is divided into.
6. **Replica**: Copy of a partition.
7. Kafka Cluster, Kafka Producer, Kafka Consumer.