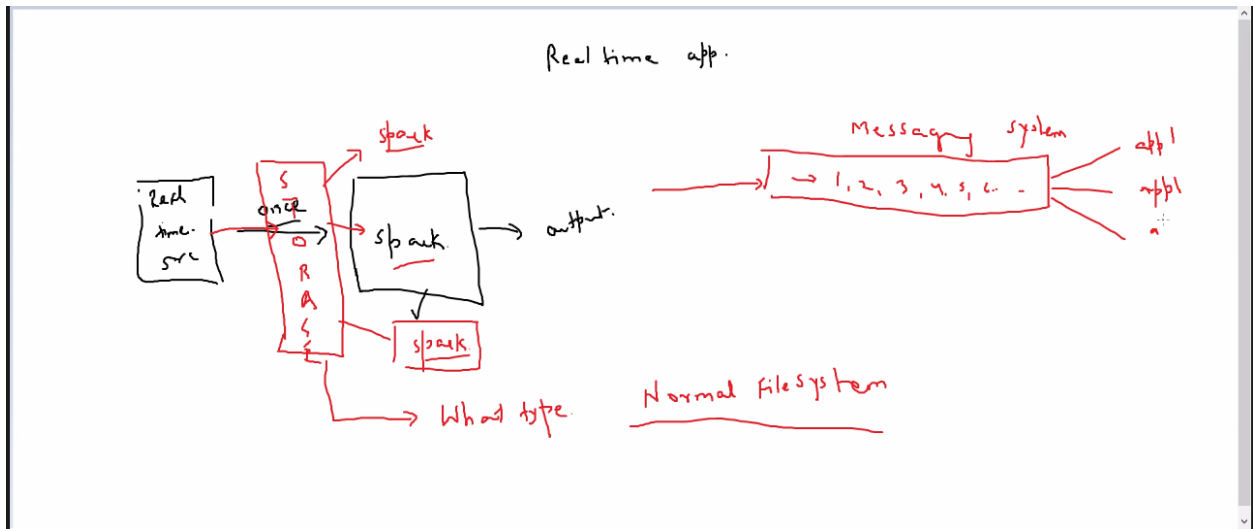
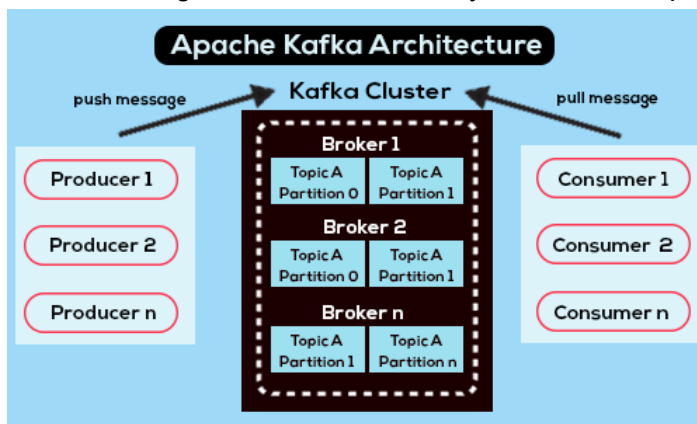


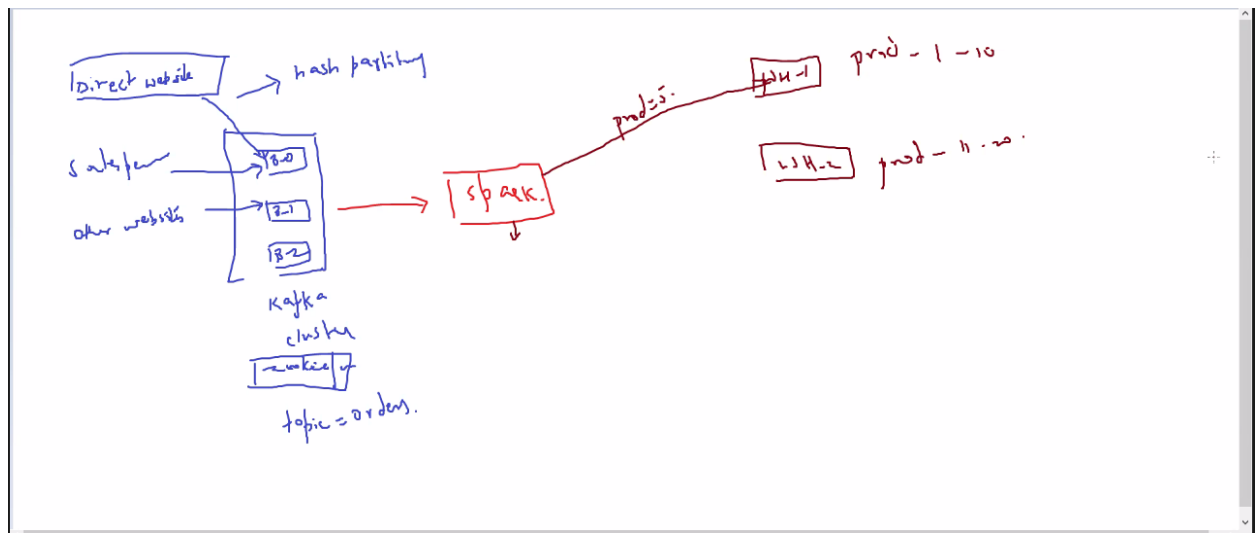
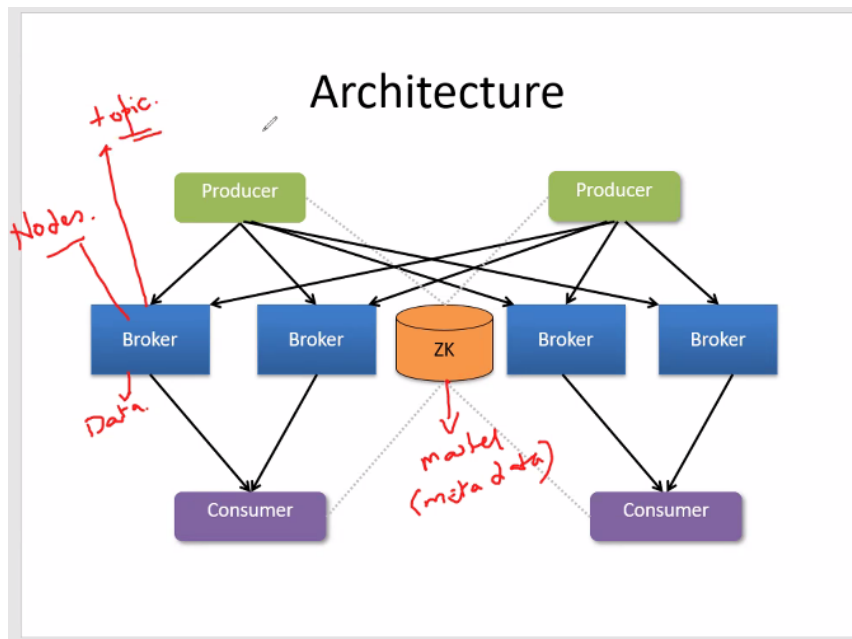
→ Kafka



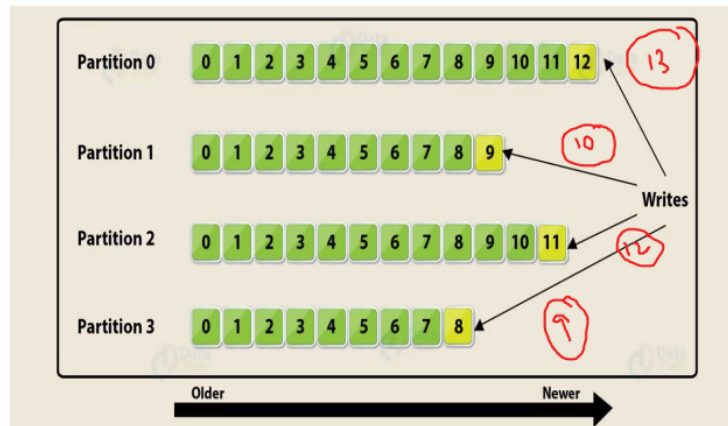
- a. Kafka cluster, called cluster because it has multiple brokers
- b. Using kafka, we collect real-time data from different publishers
- c. distributed publish-subscribe messaging system
- d. Publisher is sender and Consumer/Subscriber is receiver
- e. Topic:
 - i. an object where data is stored representing similar types of data
 - ii. Can have many K, V paired messages
- f. Once order is collected from publishers, then it is sent to spark app which is a subscriber, and then spark app sends to different data warehouses
- g. One Partition for each Broker, but each partition can have different number of messages
- h. A kafka server is called a Broker, a bridge between producers & consumers
- i. Kafka does not process data, it's just a storage layer
- j. Zookeeper is used to store information about Kafka Cluster & details of consumer clients, manages brokers, mandatory to run zookeeper server



- k.
- l.

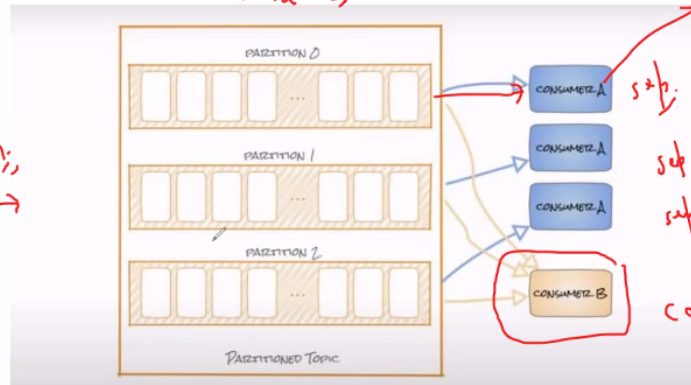


Partitions for one Topic



= 44 messages
in my
topic!

Consumer



→ Oozie

- a. Java Web App to schedule hadoop jobs
- b. Combines multiple jobs sequentially into one logical unit of work
- c. Three types of oozie jobs
 - i. Oozie Workflow
 1. Directed Acyclic Graphs, specifying a sequence of actions to execute
 - ii. Oozie Coordinator
 1. Jobs are recurrent Oozie Workflow jobs that are triggered by time and data availability
 - iii. Oozie Bundle

1. Provides a way to package multiple coordinator and workflow jobs and to manage the lifecycle of those jobs