Imp points

1) While sending a record give partition number- so that message will directly go to that partition if u don’t give that provide at least key so that partition will be calculated based on that key, if u don’t give key , then in round robin fashion it will send messages to all partitions

2) if producer is sending 1 million records in 2-3 seconds , it wont send all 1 m records to broker 1 by 1 – we have concept of producer buffer all the records will be in some buffer if buffer reaches max size then it will send in batch

Producer

Producer always sends the data to the leader partition, similarly consumer always consumes from the leader partition

When you are creating a producer its mandatory to tell the application id, then only the broker will come to know from which ap these messages are coming from, so set this ID while configuring the producer

Properties props = new Properties();

props.put(ProducerConfig.CLIENT\_ID\_CONFIG, "HelloProducer");

props.put(ProducerConfig.BOOTSTRAP\_SERVERS\_CONFIG, localhost:9092,localhost:9093);

props.put(ProducerConfig.KEY\_SERIALIZER\_CLASS\_CONFIG, IntegerSerializer.class.getName());

props.put(ProducerConfig.VALUE\_SERIALIZER\_CLASS\_CONFIG, StringSerializer.class.getName());

KafkaProducer<Integer, String> producer = new KafkaProducer<>(props);

logger.info("Start sending messages...");

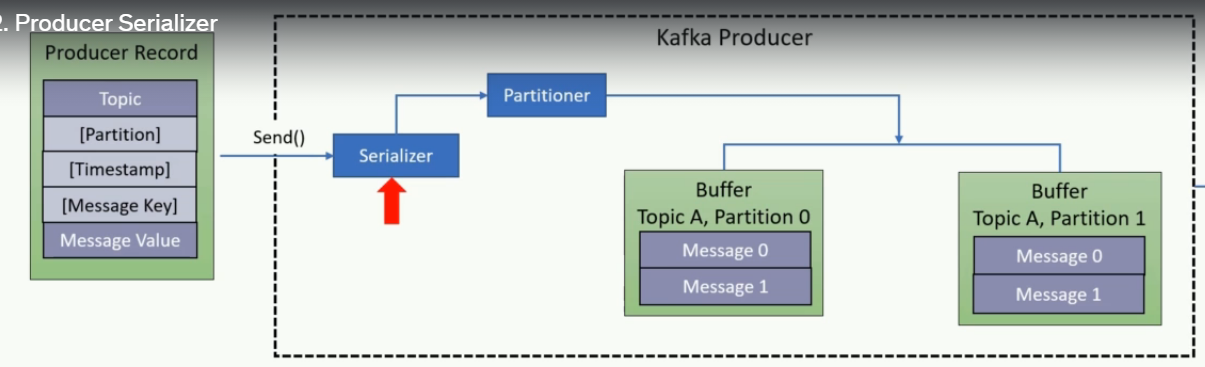
for (int i = 1; i <= AppConfigs.numEvents; i++) {

producer.send(new ProducerRecord<>(AppConfigs.topicName, i, "Simple Message-" + i));

}

|  |
| --- |
| Topic –mandatory field because if u don’t know topic name where u will send the message |
| Message value - Mandatory field |
| Message key –optional |
| Partition - |
|  |

Producer buffer



If producer is sending 1 million records at a time producer wont really send them all at once

It will be stored in a buffer, once buffer max capacity is filled then only it will send

Doubt:- let’s say if buffer max capacity is 1MB if we send 1-2 messages definitely it wont fill , in that case to full the capacity it take hours, but how are we getting instantly and why are we not waiting till buffer is filled

Partitioner

Create a custom partitioner and provide that name to that

Props.put(ProducerConfig.partitioner\_Class\_CONFIG,MyPartitioner.class.getName());