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QUESTION 1

Which of the following setting increases the chance of batching for a Kafka Producer?

- A. Increase batch.size
- B. Increase message.max.bytes
- C. Increase the number of producer threads
- D. Increase linger.ms

Correct Answer: D

linger.ms forces the producer to wait to send messages, hence increasing the chance of creating batches

QUESTION 2

You are sending messages with keys to a topic. To increase throughput, you decide to increase the number of partitions of the topic. Select all that apply.

- A. All the existing records will get rebalanced among the partitions to balance load
- B. New records with the same key will get written to the partition where old records with that key were written
- C. New records may get written to a different partition
- D. Old records will stay in their partitions

Correct Answer: CD

Increasing the number of partition causes new messages keys to get hashed differently, and breaks the guarantee "same keys goes to the same partition". Kafka logs are immutable and the previous messages are not re-shuffled

QUESTION 3

What's a Kafka partition made of?

- A. One file and one index
- B. One file
- C. One file and two indexes per segment
- D. One file and two indexes

Correct Answer: C

Kafka partitions are made of segments (usually each segment is 1GB), and each segment has two corresponding indexes (offset index and time index)

**QUESTION 4**

Suppose you have 6 brokers and you decide to create a topic with 10 partitions and a replication factor of

3. The brokers 0 and 1 are on rack A, the brokers 2 and 3 are on rack B, and the brokers 4 and 5 are on rack C. If the leader for partition 0 is on broker 4, and the first replica is on broker 2, which broker can host the last replica? (select two)

- A. 6
- B. 1
- C. 2
- D. 5
- E. 0
- F. 3

Correct Answer: BE

When you create a new topic, partitions replicas are spread across racks to maintain availability. Hence, the Rack A, which currently does not hold the topic partition, will be selected for the last replica

QUESTION 5

There are 3 producers writing to a topic with 5 partitions. There are 5 consumers consuming from the topic. How many Controllers will be present in the cluster?

- A. 3
- B. 5
- C. 2
- D. 1

Correct Answer: D

There is only one controller in a cluster at all times.

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