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Confluent Certified Developer for Apache Kafka Certification Examination Sample Questions (Q43-Q48):

NEW QUESTION # 43

What happens if you write the following code in your producer? `producer.send(producerRecord).get()`

- A. It will force all brokers in Kafka to acknowledge the `producerRecord`
- **B. Throughput will be decreased**
- C. Compression will be increased
- D. Batching will be increased

Answer: B

Explanation:

Using `Future.get()` to wait for a reply from Kafka will limit throughput.

NEW QUESTION # 44

When is the `onCompletion()` method called?

```
private class ProducerCallback implements Callback {  
    @Override  
    public void onCompletion(RecordMetadata recordMetadata, Exception e) {  
        if (e != null) {  
            e.printStackTrace();  
        }  
    }  
}  
  
ProducerRecord<String, String> record =  
    new ProducerRecord<>("topic1", "key1", "value1");  
producer.send(record, new ProducerCallback());
```

- A. When the message is partitioned and batched successfully
- B. When message is serialized successfully
- C. When `send()` method is called
- **D. When the broker response is received**

Answer: D

Explanation:

Callback is invoked when a broker response is received.

NEW QUESTION # 45

You are writing to a topic with `acks=all`.

The producer receives acknowledgments but you notice duplicate messages.

You find that timeouts due to network delay are causing resends.

Which configuration should you use to prevent duplicates?

- **A. `retries=2147483647`
`max.in.flight.requests.per.connection=5`
`enable.idempotence=true`**
- B. `enable.auto.commit=true`
- C. `retries=0`
`max.in.flight.requests.per.connection=5`
`enable.idempotence=true`
- D. `retries=2147483647`
`max.in.flight.requests.per.connection=1`
`enable.idempotence=false`

Answer: A

Explanation:

To ensure exactly-once delivery and avoid duplicates even during retries:

- * `enable.idempotence=true` ensures deduplication on the broker

- * `retries=2147483647` allows unlimited retries on retrievable errors

- * `max.in.flight.requests.per.connection=5` is the maximum value that preserves message order with idempotence From Kafka Producer

Config Docs:

"To achieve exactly-once semantics, set `enable.idempotence=true`, and `max.in.flight.requests.per.connection` # 5."

- * A is unrelated (consumer-side)

- * C disables retries

- * D disables idempotence, leading to duplicates

Reference: Kafka Producer Configs > `enable.idempotence`, `retries`

NEW QUESTION # 46

Your Kafka cluster has five brokers. The topic t1 on the cluster has:

- * Two partitions

- * Replication factor = 4

- * `min.insync.replicas = 3` You need strong durability guarantees for messages written to topic t1. You configure a producer `acks=all` and all the replicas for t1 are in-sync. How many brokers need to acknowledge a message before it is considered committed?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: A

Explanation:

With `acks=all`, the leader waits for `min.insync.replicas` to acknowledge the message. Since `min.insync.replicas=3`, Kafka will only commit the message once 3 brokers (leader + 2 followers) confirm they have the message.

From Kafka Documentation > Acks and Durability:

"If `acks=all` is specified, the producer will wait until the full set of in-sync replicas has acknowledged the record. The minimum number of in-sync replicas is controlled by `min.insync.replicas`." Even though the replication factor is 4, only 3 acknowledgments are needed, as defined by `min.insync.replicas`.

Reference: Apache Kafka Producer Configs > `acks`, `min.insync.replicas`

NEW QUESTION # 47

You are using JDBC source connector to copy data from 3 tables to three Kafka topics. There is one connector created with `max.tasks` equal to 2 deployed on a cluster of 3 workers. How many tasks are launched?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

here, we have three tables, but the `max.tasks` is 2, so that's the maximum number of tasks that will be created

NEW QUESTION # 48

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