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Confluent Certified Developer for Apache Kafka Certification Examination Sample Questions (Q67-Q72):

NEW QUESTION # 67

The producer code below features a Callback class with a method called onCompletion().

In the onCompletion() method, when the request is completed successfully, what does the value metadata.offset() represent?

- A. The sequential ID of the message committed into a partition
- B. Its position in the producer's batch of messages
- C. The ID of the partition to which the message was committed
- D. The number of bytes that overflowed beyond a producer batch of messages

Answer: A

Explanation:

The offset in the RecordMetadata object returned by the producer represents the position of the record in the partition- i.e., the sequential ID assigned by Kafka once the message is committed.

From Kafka Producer API Documentation:

"The offset is the position of the record in the partition. This is a unique, sequential number assigned by the broker."

* D refers to metadata.partition(), not offset().

* B and C are unrelated to how Kafka handles committed offsets.

Reference: Kafka Producer Java API > RecordMetadata

NEW QUESTION # 68

Once sent to a topic, a message can be modified

- A. No
- B. Yes

Answer: A

Explanation:

Kafka logs are append-only and the data is immutable

NEW QUESTION # 69

Which two statements are correct about transactions in Kafka?

(Select two.)

- A. Transactions are only possible when writing messages to a topic with single partition.
- B. Transactions guarantee at least once delivery of messages.
- C. All messages from a failed transaction will be deleted from a Kafka topic.
- D. Consumers can consume both committed and uncommitted transactions.
- E. Information about producers and their transactions is stored in the `_transaction_state` topic.

Answer: D,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

* #C. Consumers can consume both committed and uncommitted transactions. By default, Kafka consumers only read committed messages if they are configured with `isolation.level=read_committed`.

However, if configured as `read_uncommitted`, they can also consume uncommitted (potentially aborted) transactional messages.

From Kafka Documentation:

"The `isolation.level` setting controls whether the consumer will read only committed messages or all messages, including uncommitted messages from ongoing or aborted transactions."

* #D. Information about producers and their transactions is stored in the `_transaction_state` topic.

Kafka uses an internal topic named `_transaction_state` to maintain metadata about producer transactions. This topic is essential for tracking the transaction lifecycle, fencing, and recovery.

From Kafka Internals:

"Kafka stores the state of active and completed transactions in an internal topic called `_transaction_state`."

NEW QUESTION # 70

What's true about Kafka brokers and clients from version 0.10.2 onwards?

- A. A newer client can talk to a newer broker, and an older client can talk to a newer broker
- B. A newer client can't talk to a newer broker, but an older client can talk to a newer broker
- C. A newer client can talk to a newer broker, but an older client cannot talk to a newer broker
- D. Clients and brokers must have the exact same version to be able to communicate

Answer: A

Explanation:

Kafka's new bidirectional client compatibility introduced in 0.10.2 allows this. Read more here: <https://www.confluent.io/blog/upgrading-apache-kafka-clients-just-got-easier/>

NEW QUESTION # 71

A consumer is configured with `enable.auto.commit=false`. What happens when `close()` is called on the consumer object?

- A. A rebalance in the consumer group will happen immediately
- B. The group coordinator will discover that the consumer stopped sending heartbeats. It will cause rebalance after session.timeout.ms
- C. The uncommitted offsets are committed

Answer: A

Explanation:

Calling `close()` on consumer immediately triggers a partition rebalance as the consumer will not be available anymore.

NEW QUESTION # 72

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