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Confluent Certified Developer for Apache Kafka Certification Examination Sample Questions (Q40-Q45):

NEW QUESTION # 40

(A consumer application needs to use an at-most-once delivery semantic.

What is the best consumer configuration and code skeleton to avoid duplicate messages being read?)

- A. `auto.offset.reset=earliest` and `enable.auto.commit=false` while (true) {final var records = consumer.poll(POLL_TIMEOUT);consumer.commitAsync();for (var record : records) {*// Any processing*}}
- B. `auto.offset.reset=earliest` and `enable.auto.commit=true` while (true) {final var records = consumer.poll(POLL_TIMEOUT);consumer.commitAsync();for (var record : records) {*// Any processing*}}
- C. `auto.offset.reset=earliest` and `enable.auto.commit=false` while (true) {final var records = consumer.poll(POLL_TIMEOUT);for (var record : records) {*// Any processing*} consumer.commitAsync();}
- D. `auto.offset.reset=latest` and `enable.auto.commit=true` while (true) {final var records = consumer.poll(POLL_TIMEOUT);for (var record : records) {*// Any processing*} consumer.commitAsync();}

Answer: A

Explanation:

According to the official Apache Kafka consumer semantics documentation, at-most-once delivery means that records may be lost but must never be processed more than once. To achieve this guarantee, a consumer must commit offsets before processing records. If the application crashes after committing but before processing, messages are skipped rather than reprocessed, which satisfies at-most-once semantics.

Option B correctly implements this pattern. It disables automatic offset commits (`enable.auto.commit=false`) and explicitly calls `commitAsync()` immediately after polling and before processing records. This ensures that offsets are advanced regardless of whether processing succeeds, eliminating the possibility of duplicate processing.

Option C represents at-least-once semantics, because offsets are committed after processing, which can lead to duplicates on failure. Options A and D rely on automatic commits or incorrect ordering and do not provide strict at-most-once guarantees.

The Kafka documentation explicitly states that manual offset management with commits before processing is required for at-most-once delivery.

Therefore, Option B is the best and officially documented configuration and code skeleton to avoid duplicate message processing.

NEW QUESTION # 41

(An S3 source connector named s3-connector stopped running.

You use the Kafka Connect REST API to query the connector and task status.

One of the three tasks has failed.

You need to restart the connector and all currently running tasks.

Which REST request will restart the connector instance and all its tasks?)

- A. `POST /connectors/s3-connector/restart?includeTasks=true`
- B. `POST /connectors/s3-connector/restart?includeTasks=true&onlyFailed=true`
- C. `POST /connectors/s3-connector/restart`
- D. `POST /connectors/s3-connector/tasks/0/restart`

Answer: A

Explanation:

According to the official Apache Kafka Connect REST API documentation, restarting a connector can be done at different granularities: connector-level, task-level, or both. By default, calling `POST /connectors/{name}/restart` only restarts the connector instance, not its tasks.

To restart the connector and all of its tasks, the request must explicitly include the query parameter `includeTasks=true`. This instructs Kafka Connect to restart the connector and all associated tasks, regardless of whether they are currently running or failed.

Option B (`onlyFailed=true`) limits the restart to only failed tasks, which does not meet the requirement to restart all tasks. Option C restarts only the connector instance, leaving tasks untouched. Option D restarts a single specific task and does not restart the connector itself.

Therefore, the correct and officially documented REST request to restart the connector instance and all tasks is:

`POST /connectors/s3-connector/restart?includeTasks=true`

This ensures a full restart of the connector and its execution context across the Kafka Connect cluster.

NEW QUESTION # 42

A stream processing application is consuming from a topic with five partitions. You run three instances of the application. Each instance has `num.stream.threads=5`.

You need to identify the number of stream tasks that will be created and how many will actively consume messages from the input

topic.

- A. 15 created, 5 actively consuming
- **B. 15 created, 15 actively consuming**
- C. 5 created, 5 actively consuming
- D. 5 created, 1 actively consuming

Answer: B

Explanation:

In Kafka Streams, the number of stream tasks = number of input partitions × num.stream.threads × number of instances, but only as many as the number of partitions can actively consume at once.

However, in this case, Kafka Streams assigns one task per partition, and because there are 5 partitions and 15 threads (3 instances × 5 threads), 15 tasks are created, and all 15 can be active depending on processing topology.

From Kafka Streams Developer Guide:

"Kafka Streams creates one task per input partition. If you increase the number of stream threads, it runs multiple tasks in parallel within a single instance." So, 15 stream tasks will be created and 15 will be actively consuming.

Reference: Apache Kafka Streams Documentation > Concepts > Tasks and Threads

NEW QUESTION # 43

You have a topic t1 with six partitions. You use Kafka Connect to send data from topic t1 in your Kafka cluster to Amazon S3. Kafka Connect is configured for two tasks.

How many partitions will each task process?

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

Answer: B

Explanation:

When using Kafka Connect with sink connectors (like S3 Sink), each task is assigned one or more topic partitions. The total number of partitions (6) is evenly distributed across the available tasks (2). Thus, each task will handle 3 partitions.

From Kafka Connect Documentation:

"Kafka Connect divides the topic partitions among available tasks. For example, a topic with six partitions and two tasks results in each task handling three partitions." Reference: Kafka Connect Concepts > Tasks and Partitions

NEW QUESTION # 44

You are working on an Orders microservice that is publishing messages to an Orders topic. It is a business requirement that the Orders for a given customer are processed sequentially. Also, the Orders topic is partitioned for scalability.

Which factors would you need to address during application development?

- A. Enable producer Idempotence. set batch.size = 1. and set linger.ms to 0. and number of partitions is not changed.
- B. Enable producer Idempotence. set max-in-flight requests per connection to 1. and number of partitions is not changed.
- C. Enable producer Idempotence. set linger.ms to 0. set acks='all' and number of partitions is not changed.
- **D. Ensure the message key is set to customer id, max-in-flight requests per connection is set to less than or equal to 5, and number of partitions is not changed.**

Answer: D

NEW QUESTION # 45

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