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Confluent Certified Developer for Apache Kafka Certification Examination Sample Questions (Q51-Q56):

NEW QUESTION # 51

(What are two stateless operations in the Kafka Streams API?
(Select two.)

- A. GroupBy
- B. Reduce
- C. Join
- D. Filter

Answer: A,D

Explanation:

In the Kafka Streams API, operations are classified as stateless or stateful based on whether they require maintaining local state stores. According to the official Kafka Streams documentation, stateless operations process each record independently, without storing or accessing prior records.

Filter is a stateless operation because it evaluates each record individually and decides whether to pass it downstream. It does not require any state or historical context.

GroupBy is also considered stateless because it merely repartitions the stream by assigning a new key and forwarding records to downstream processors. While it triggers the creation of an internal repartition topic, the GroupBy operation itself does not maintain a state store.

In contrast, Reduce is a stateful operation because it aggregates records over time and requires maintaining intermediate results in a state store. Similarly, Join operations are stateful because Kafka Streams must buffer and store records from one or both input streams or tables to perform the join within a defined time window.

Thus, the correct stateless operations are Filter and GroupBy, as documented in the Kafka Streams developer guide.

NEW QUESTION # 52

You need to set alerts on key broker metrics to trigger notifications when the cluster is unhealthy.

Which are three minimum broker metrics to monitor?

(Select three.)

- A. kafka.controller:type=ControllerStats,name=UncleanLeaderElectionsPerSec
- B. kafka.controller:type=KafkaController,name=OfflinePartitionsCount
- C. kafka.controller:type=KafkaController,name=LastCommittedRecordOffset
- D. kafka.controller:type=KafkaController,name=TopicsToDeleteCount
- E. kafka.controller:type=KafkaController,name=ActiveControllerCount

Answer: A,B,E

Explanation:

These three metrics are critical for cluster health:

* OfflinePartitionsCount: Indicates partitions without active leaders - a sign of broker failure.

* ActiveControllerCount: There should be exactly one active controller. A count # 1 signals controller failure.

* UncleanLeaderElectionsPerSec: Tracks leader elections where out-of-sync replicas were selected - risky for data loss.

From Kafka Monitoring Documentation:

"Offline partitions and unclean leader elections should trigger alerts. Also, ensure a single active controller is running."

* A is about topics pending deletion - not critical.

* E is a per-topic record metric, not broker-level.

Reference: Kafka Monitoring > Key JMX Metrics

NEW QUESTION # 53

Clients that connect to a Kafka cluster are required to specify one or more brokers in the bootstrap.servers parameter.
What is the primary advantage of specifying more than one broker?

- A. It provides redundancy in making the initial connection to the Kafka cluster.
- B. It is the mechanism to distribute a topic's partitions across multiple brokers.
- C. It provides the ability to wake up dormant brokers.
- D. It forces clients to enumerate every single broker in the cluster.

Answer: A

Explanation:

The bootstrap.servers setting is used by clients (producers and consumers) to initially connect to the Kafka cluster. It does not need to list all brokers-just a few that are up and reachable. The client will then use the cluster metadata to discover the full broker list. From Kafka Java Client Configuration Docs:

"This is a list of host/port pairs to use for establishing the initial connection to the Kafka cluster. The client will make use of all servers irrespective of which servers are specified here for bootstrapping." Hence, listing multiple brokers provides redundancy and fault tolerance in the event one is down during client startup.

Reference: Apache Kafka Java Client Configuration > bootstrap.servers

NEW QUESTION # 54

Match the testing tool with the type of test it is typically used to perform.

Answer:

Explanation:

Explanation:

Unit Testing # MockProducer

Integration Testing # Testcontainers

Performance Testing # Trogdor

Mock Data Generation # Connect Datagen

MockProducer: Simulates a Kafka producer in unit tests (no real broker interaction).

Testcontainers: Spawns Kafka in Docker for real environment testing.

Trogdor: Kafka's built-in performance load testing framework.

Connect Datagen: Creates sample source records for test and demo purposes.

From Kafka Developer Tools Guide:

"Kafka developers commonly use MockProducer for unit tests, Testcontainers for integration, and Trogdor for performance tests."

Reference: Kafka Testing and Tools Overview

NEW QUESTION # 55

You want to perform table lookups against a KTable everytime a new record is received from the KStream.

What is the output of KStream-KTable join?

- A. You choose between KStream or KTable
- B. Kstream
- C. KTable
- D. GlobalKTable

Answer: B

Explanation:

Here KStream is being processed to create another KStream.

NEW QUESTION # 56

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