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Confluent CCAAK Exam Syllabus Topics:

Topic	Details
Topic 1	• Troubleshooting: This section of the exam measures skills of a Kafka Administrator and includes diagnosing common issues in Kafka clusters. It covers problem areas such as performance bottlenecks, message delivery failures, replication issues, and consumer lag, along with techniques to resolve them effectively.
Topic 2	• Apache Kafka® Security: This section of the exam measures skills of a Site Reliability Engineer and focuses on securing Kafka environments. It includes authentication mechanisms such as TLS and SASL, authorization using ACLs, and encrypting data at rest and in transit to ensure secure communication and access control.
Topic 3	• Apache Kafka® Fundamentals: This section of the exam measures skills of a Kafka Administrator and covers core concepts such as Kafka architecture, components, and data flow. It assesses the candidate's understanding of topics like topics and partitions, brokers, producers, consumers, and message retention.
Topic 4	• Apache Kafka® Cluster Configuration: This section of the exam measures skills of a Kafka Administrator and includes configuring broker properties, tuning for performance, managing topic-level settings, and applying best practices for production-grade environments.

Topic 5	• Deployment Architecture: This section of the exam measures skills of a Kafka Administrator and covers different Kafka deployment topologies. It evaluates understanding of high availability, disaster recovery, multi-data center replication, and the roles of Zookeeper or KRaft in the cluster architecture.
Topic 6	• Kafka Connect: This section of the exam measures skills of a Site Reliability Engineer and addresses the use and management of Kafka Connect for data integration. It includes setting up connectors, managing configurations, and ensuring efficient movement of data between Kafka and external systems.

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Confluent Certified Administrator for Apache Kafka Sample Questions (Q38-Q43):

NEW QUESTION # 38

What are important factors in sizing a ksqldb cluster? (Choose three.)

- A. Data Encryption
- **B. Data Schema**
- **C. Number of Partitions**
- D. Topic Data Retention
- **E. Number of Queries**

Answer: B,C,E

Explanation:

The complexity of the schema (number of fields, data types, etc.) affects processing and memory usage. Each ksqldb persistent query consumes resources (CPU, memory), so more queries require more capacity. More partitions increase parallelism, but also resource usage, especially in scaling and state management.

NEW QUESTION # 39

Which ksqldb statement produces data that is persisted into a Kafka topic?

- A. SELECT (Pull Query)
- **B. INSERT VALUES**
- C. CREATE TABLE
- D. SELECT (Push Query)

Answer: B

Explanation:

INSERT VALUES is used to write data directly into a Kafka topic through a ksqldb stream or table. This data is persisted.

NEW QUESTION # 40

An employee in the reporting department needs assistance because their data feed is slowing down. You start by quickly checking the consumer lag for the clients on the data stream.

Which command will allow you to quickly check for lag on the consumers?

- A. bin/kafka-consumer-group-throughput.sh
- B. bin/kafka-reassign-partitions.sh
- C. bin/kafka-consumer-lag.sh
- D. bin/kafka-consumer-groups.sh

Answer: D

Explanation:

The kafka-consumer-groups.sh script is used to inspect consumer group details, including consumer lag, which indicates how far behind a consumer is from the latest data in the partition.

The typical usage is bin/kafka-consumer-groups.sh --bootstrap-server <broker> --describe --group <group_id>

NEW QUESTION # 41

An employee in the reporting department needs assistance because their data feed is slowing down. You start by quickly checking the consumer lag for the clients on the data stream.

Which command will allow you to quickly check for lag on the consumers?

- A. bin/kafka-consumer-group-throughput.sh
- B. bin/kafka-reassign-partitions.sh
- C. bin/kafka-consumer-lag.sh
- D. bin/kafka-consumer-groups.sh

Answer: D

Explanation:

The kafka-consumer-groups.sh script is used to inspect consumer group details, including consumer lag, which indicates how far behind a consumer is from the latest data in the partition.

The typical usage is bin/kafka-consumer-groups.sh --bootstrap-server <broker> --describe --group <group_id>

NEW QUESTION # 42

A topic 'recurring payments' is created on a Kafka cluster with three brokers (broker id '0', '1', '2') and nine partitions. The 'min.insync.replicas' is set to three, and producer is set with 'acks' as 'all'. Kafka Broker with id '0' is down.

Which statement is correct?

- A. Producers can write messages to all the partitions, because new leaders for the partitions will be elected.
- B. Producers and consumers will have no impact on six of the nine partitions.
- C. Consumers can read committed messages from partitions on broker id T, '2'
- D. Producers will only be able to write messages to the topic where the Leader for the partition is on Broker id T.

Answer: B

Explanation:

With 9 partitions spread across 3 brokers, each broker typically hosts 3 leaders (assuming even distribution). When Broker 0 fails, the partitions for which it was leader will elect new leaders on brokers 1 or 2 if enough in-sync replicas (ISRs) remain. But since min.insync.replicas=3 and only 2 brokers are up, no partition can meet the minimum in-sync replica requirement, so producers with acks=all will fail to write. However, for partitions where Broker 0 is not the leader, consumers can still read committed messages. Given that only 3 partitions likely had Broker 0 as leader, six partitions remain accessible for reads, but not writes.

NEW QUESTION # 43

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