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Confluent CCAAK Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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.

Topic 5	• 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.
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Confluent Certified Administrator for Apache Kafka Sample Questions (Q43-Q48):

NEW QUESTION # 43

When a broker goes down, what will the Controller do?

- A. Trigger a leader election among the remaining followers to distribute leadership.
- B. Automatically elect the least loaded broker to become the leader for every orphan's partitions.
- C. Wait for a follower to take the lead.
- D. Become the leader for the topic/partition that needs a leader, pending the broker return in the cluster.

Answer: A

Explanation:

When a broker goes down, the Controller detects the failure and triggers a leader election for all partitions that had their leader on the failed broker. The leader is chosen from the in-sync replicas (ISRs) of each partition.

NEW QUESTION # 44

Your Kafka cluster has four brokers. The topic t1 on the cluster has two partitions, and it has a replication factor of three. You create a Consumer Group with four consumers, which subscribes to t1.

In the scenario above, how many Controllers are in the Kafka cluster?

- A. two
- B. Four
- C. three
- D. One

Answer: D

Explanation:

In a Kafka cluster, only one broker acts as the Controller at any given time. The Controller is responsible for managing cluster metadata, such as partition leadership and broker status. Even if the cluster has multiple brokers (in this case, four), only one is elected as the Controller, and others serve as regular brokers. If the current Controller fails, another broker is automatically elected to take its place.

NEW QUESTION # 45

How can authentication for both internal component traffic and external client traffic be accomplished?

- A. Configure LoadBalancer.
- B. Configure multiple security protocols on the same listener.
- C. Configure multiple brokers.
- D. Configure multiple listeners on the broker.

Answer: D

Explanation:

Kafka supports multiple listeners, each with its own port, hostname, and security protocol. This allows you to:

- * Use one listener for internal communication (e.g., brokers, ZooKeeper, Connect, etc.) with one type of authentication (e.g., PLAINTEXT or SASL).
- * Use a separate listener for external clients (e.g., producers and consumers) with a different protocol (e.g., SSL or SASL_SSL).

NEW QUESTION # 46

Kafka Connect is running on a two node cluster in distributed mode. The connector is a source connector that pulls data from Postgres tables (users/payment/orders), writes to topics with two partitions, and with replication factor two. The development team notices that the data is lagging behind.

What should be done to reduce the data lag*?

The Connector definition is listed below:

```
{
  "name": "confluent-postgresql-source",
  "connector.class": "PostgresSource",
  "topic.prefix": "postgresql_",
  "db.name": "postgres",
  "table.whitelist": "users.payment.orders",
  "timestamp.column.name": "created_at",
  "output.data.format": "JSON",
  "db.timezone": "UTC",
  "tasks.max": "1"
}
```

- A. Increase the number of partitions.
- **B. Increase the number of Connect Tasks (tasks max value).**
- C. Increase the replication factor and increase the number of Connect Tasks.
- D. Increase the number of Connect Nodes.

Answer: B

Explanation:

The connector is currently configured with "tasks.max": "1", which means only one task is handling all tables (users, payment, orders). This can create a bottleneck and lead to lag. Increasing tasks.max allows Kafka Connect to parallelize work across multiple tasks, which can pull data from different tables concurrently and reduce lag.

NEW QUESTION # 47

A developer is working for a company with internal best practices that dictate that there is no single point of failure for all data stored.

What is the best approach to make sure the developer is complying with this best practice when creating Kafka topics?

- **A. Set the topic replication factor to 3.**
- B. Set 'min.insync.replicas' to 1.
- C. Use the parameter --partitions=3 when creating the topic.
- D. Make sure the topics are created with linger.ms=0 so data is written immediately and not held in batch.

Answer: A

Explanation:

Replication factor determines how many copies of each partition exist across different brokers. A replication factor of 3 ensures that even if one or two brokers fail, the data is still available, thus eliminating a single point of failure.

NEW QUESTION # 48

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