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Confluent CCAAK Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Observability: This section of the exam measures skills of a Site Reliability Engineer and focuses on monitoring Kafka clusters. It assesses knowledge of metrics, logging, and alerting tools, including how to use them to maintain cluster health and performance visibility.
Topic 5	<ul style="list-style-type: none">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 6	<ul style="list-style-type: none">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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They work together and strive hard to design and maintain the top standard of Confluent CCAAK exam questions. So you rest assured that the CCAAK exam questions you will not only ace your Confluent Certified Administrator for Apache Kafka certification exam preparation but also be ready to perform well in the final CCAAK Certification Exam. The CCAAK exam are the real CCAAK exam practice questions that will surely repeat in the upcoming Confluent Certified Administrator for Apache Kafka (CCAAK) exam and you can easily pass the exam.

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

NEW QUESTION # 38

A Kafka cluster with three brokers has a topic with 10 partitions and a replication factor set to three. Each partition stores 25 GB data per day and data retention is set to 24 hours.

How much storage will be consumed by the topic on each broker?

- A. 750 GB
- B. 250 GB
- **C. 300 GB**
- D. 75 GB

Answer: C

Explanation:

$10 \text{ partitions} \times 25 \text{ GB/day} = 250 \text{ GB total per day for the topic (primary data).}$

With a replication factor of 3, there are 3 full copies of the data: $250 \text{ GB} \times 3 = 750 \text{ GB total across the entire cluster.}$

The cluster has 3 brokers, and Kafka tries to distribute replicas evenly among them: $750 \text{ GB} \div 3 \text{ brokers} = 250 \text{ GB per broker on average.}$

However, due to replication, some partitions have leaders and followers, so there's some overlap and not-perfect distribution. Each broker stores approximately 2/3 of the total topic data (since each broker holds replicas for around 2/3 of the partitions).

$2/3 \times 750 \text{ GB} = 500 \text{ GB}$, but this is shared, so each broker ends up storing ~300 GB of replicated data, including its share of leaders and followers.

NEW QUESTION # 39

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_",  
  &nbsp;&nbsp;&nbsp;...  
  "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 replication factor and increase the number of Connect Tasks.
- B. Increase the number of partitions.
- **C. Increase the number of Connect Tasks (tasks max value).**

- D. Increase the number of Connect Nodes.

Answer: C

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 # 40

Which connector type takes data from a topic and sends it to an external data system?

- A. Source Connector
- B. SvsLog Connector
- **C. Sink Connector**
- D. Streams Connector

Answer: C

Explanation:

A Sink Connector reads data from a Kafka topic and writes it to an external data system, such as a database, file system, or cloud service.

NEW QUESTION # 41

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

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

Answer: A,C,D

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 # 42

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

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

Answer: D

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 # 43

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questions include are quintessential points about the exam. They are almost all the keypoints and the latest information contained in our CCAAK Study Materials that you have to deal with in the real exam. And we have high pass rate of our CCAAK exam questions as 98% to 100%. It is hard to find in the market.

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