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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® 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 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	• 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.

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Confluent Certified Administrator for Apache Kafka Sample Questions (Q17-Q22):

NEW QUESTION # 17

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

Answer: B

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 $\frac{2}{3}$ of the total topic data (since each broker holds replicas for around $\frac{2}{3}$ of the partitions).

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

NEW QUESTION # 18

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

Answer: D

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 # 19

Which property in broker configuration specifies that a broker belongs to a particular rack?

Which property in broker configuration specifies that a broker belongs to a particular rack?

- A. `zookeeper.rack`

- B. kafka.rack
- **C. broker.rack**
- D. client.rack

Answer: C

Explanation:

The broker.rack property is used in a Kafka broker's configuration to specify the rack or availability zone the broker belongs to. This is important for rack-aware replica placement, allowing Kafka to distribute replicas across different racks for fault tolerance.

NEW QUESTION # 20

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-lag.sh
- B. bin/kafka-consumer-group-throughput.sh
- C. bin/kafka-reassign-partitions.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 # 21

How can load balancing of Kafka clients across multiple brokers be accomplished?

- A. Connectors
- B. Replicas
- **C. Partitions**
- D. Offsets

Answer: C

Explanation:

Partitions are the primary mechanism for achieving load balancing in Kafka. When a topic has multiple partitions, Kafka clients (producers and consumers) can distribute the load across brokers hosting these partitions.

NEW QUESTION # 22

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