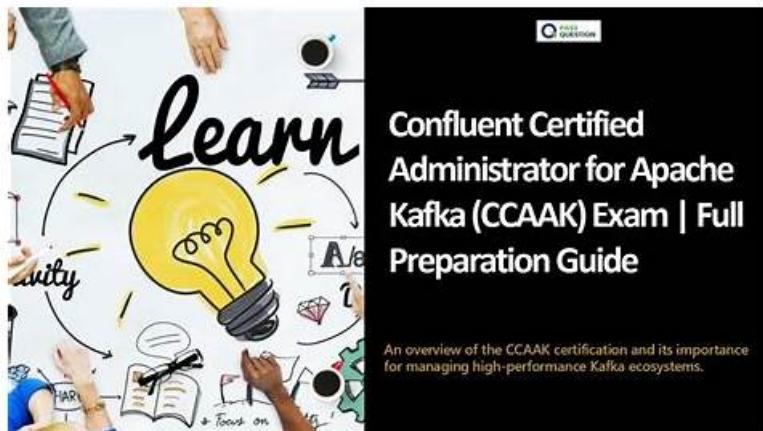


# Pass Guaranteed CCAAK - Confluent Certified Administrator for Apache Kafka High Hit-Rate Latest Study Questions



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## Confluent CCAAK Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 6	<ul style="list-style-type: none"><li>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.</li></ul>

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### Confluent Certified Administrator for Apache Kafka Sample Questions (Q45-Q50):

#### NEW QUESTION # 45

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

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

**Answer: C**

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 # 46

You are managing a Kafka cluster with five brokers (broker id '0', '1','2','3','4') and three ZooKeepers. There are 100 topics, five partitions for each topic, and replication factor three on the cluster. Broker id '0' is currently the Controller, and this broker suddenly fails.

Which statements are correct? (Choose three.)

- A. The broker id is used as the epoch number to prevent a split brain scenario.
- B. The Controller is responsible for reassigning partitions to the consumers in a Consumer Group.
- **C. The Controller uses the epoch number to prevent a split brain scenario.**
- **D. Kafka uses ZooKeeper's ephemeral node feature to elect a controller.**
- E. The number of Controllers should always be equal to the number of brokers alive in the cluster.
- **F. The Controller is responsible for electing Leaders among the partitions and replicas.**

**Answer: C,D,F**

Explanation:

Kafka relies on ZooKeeper's ephemeral nodes to detect if a broker (controller) goes down and to elect a new controller.

The controller manages partition leadership assignments and handles leader election when a broker fails.

The epoch number ensures coordination and avoids outdated controllers acting on stale data.

#### NEW QUESTION # 47

You have a cluster with a topic t1 that already has uncompressed messages. A new Producer starts sending messages to t1 with compression enabled.

Which condition would allow this?

- A. Only if Kafka is also enabled for encryption.
- B. Never, because topic t1 already has uncompressed messages.
- **C. If the new Producer is configured to use compression.**
- D. Only if the new Producer disables batching.

**Answer: C**

Explanation:

Kafka allows mixed compression formats within the same topic and even the same partition. Each message batch includes metadata indicating whether and how it is compressed. Therefore, a new producer can send compressed messages to a topic that already contains uncompressed messages, as long as it is configured with a compression codec (e.g., compression.type=gzip, snappy, etc.).

#### NEW QUESTION # 48

When using Kafka ACLs, when is the resource authorization checked?

- A. Each time the resource is accessed.
- B. The initial time the resource is accessed.
- C. When the client connection is first established.
- D. Each time the resource is accessed within the configured authorization interval.

**Answer: A**

Explanation:

Kafka ACLs (Access Control Lists) perform authorization checks every time a client attempts to access a resource (e.g., topic, consumer group). This ensures continuous enforcement of permissions, not just at connection time or intervals. This approach provides fine-grained security, preventing unauthorized actions at any time during a session.

#### NEW QUESTION # 49

Which use cases would benefit most from continuous event stream processing? (Choose three.)

- A. End-of-day financial settlement processing
- B. Context-aware product recommendations for e-commerce
- C. Log monitoring/application fault detection
- D. Fraud detection
- E. Historical dashboards

**Answer: B,C,D**

Explanation:

Real-time analysis of transactions helps detect suspicious activity instantly.

Context-aware product recommendations for e-commerce requires real-time user behavior tracking to serve personalized recommendations.

Log monitoring/application fault detection needs immediate processing to alert on system issues or failures.

#### NEW QUESTION # 50

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