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QUESTION 1

You are using JDBC source connector to copy data from 3 tables to three Kafka topics. There is one connector created with max.tasks equal to 2 deployed on a cluster of 3 workers. How many tasks are launched?

- A. 2
- B. 1
- C. 3
- D. 6

Correct Answer: A

here, we have three tables, but the max.tasks is 2, so that's the maximum number of tasks that will be created

QUESTION 2

If I want to send binary data through the REST proxy, it needs to be base64 encoded. Which component needs to encode the binary data into base 64?

- A. The Producer
- B. The Kafka Broker
- C. Zookeeper
- D. The REST Proxy

Correct Answer: A

The REST Proxy requires to receive data over REST that is already base64 encoded, hence it is the responsibility of the producer

QUESTION 3

A kafka topic has a replication factor of 3 and min.insync.replicas setting of 1. What is the maximum number of brokers that can be down so that a producer with acks=all can still produce to the topic?

- A. 3
- B. 0
- C. 2
- D. 1

Correct Answer: C

Two brokers can go down, and one replica will still be able to receive and serve data



QUESTION 4

Which of the following is true regarding thread safety in the Java Kafka Clients?

- A. One Producer can be safely used in multiple threads
- B. One Consumer can be safely used in multiple threads
- C. One Consumer needs to run in one thread
- D. One Producer needs to be run in one thread

Correct Answer: AC

KafkaConsumer is not thread-safe, KafkaProducer is thread safe.

QUESTION 5

Two consumers share the same group.id (consumer group id). Each consumer will

- A. Read mutually exclusive offsets blocks on all the partitions
- B. Read all the data on mutual exclusive partitions
- C. Read all data from all partitions

Correct Answer: B

Each consumer is assigned a different partition of the topic to consume.

QUESTION 6

Your topic is log compacted and you are sending a message with the key K and value null. What will happen?

- A. The broker will delete all messages with the key K upon cleanup
- B. The producer will throw a Runtime exception
- C. The broker will delete the message with the key K and null value only upon cleanup
- D. The message will get ignored by the Kafka broker

Correct Answer: A

Sending a message with the null value is called a tombstone in Kafka and will ensure the log compacted topic does not contain any messages with the key K upon compaction

QUESTION 7



There are 3 producers writing to a topic with 5 partitions. There are 10 consumers consuming from the topic as part of the same group. How many consumers will remain idle?

- A. 10
- B. 3
- C. None
- D. 5

Correct Answer: D

One consumer per partition assignment will keep 5 consumers idle.

QUESTION 8

What is not a valid authentication mechanism in Kafka?

- A. SASL/GSSAPI
- B. SASL/SCRAM
- C. SAML
- D. SSL

Correct Answer: C

Learn more about security here <https://kafka.apache.org/documentation/#security>

QUESTION 9

The Controller is a broker that is... (select two)

- A. elected by Zookeeper ensemble
- B. is responsible for partition leader election
- C. elected by broker majority
- D. is responsible for consumer group rebalances

Correct Answer: AB

Controller is a broker that in addition to usual broker functions is responsible for partition leader election. The election of that broker happens thanks to Zookeeper and at any time only one broker can be a controller

QUESTION 10

You are using JDBC source connector to copy data from 2 tables to two Kafka topics. There is one connector created



with max.tasks equal to 2 deployed on a cluster of 3 workers. How many tasks are launched?

- A. 6
- B. 1
- C. 2
- D. 3

Correct Answer: C

we have two tables, so the max number of tasks is 2

QUESTION 11

There are 3 brokers in the cluster. You want to create a topic with a single partition that is resilient to one broker failure and one broker maintenance. What is the replication factor will you specify while creating the topic?

- A. 6
- B. 3
- C. 2
- D. 1

Correct Answer: B

1 is not possible as it doesn't provide resilience to failure, 2 is not enough as if we take a broker down for maintenance, we cannot tolerate a broker failure, and 6 is impossible as we only have 3 brokers (RF cannot be greater than the number of brokers). Here the correct answer is 3

QUESTION 12

What client protocol is supported for the schema registry? (select two)

- A. HTTP
- B. HTTPS
- C. JDBC
- D. WebSocket
- E. SASL

Correct Answer: AB

clients can interact with the schema registry using the HTTP or HTTPS interface



QUESTION 13

A topic has three replicas and you set `min.insync.replicas` to 2. If two out of three replicas are not available, what happens when a consume request is sent to broker?

- A. Data will be returned from the remaining in-sync replica
- B. An empty message will be returned
- C. `NotEnoughReplicasException` will be returned
- D. A new leader for the partition will be elected

Correct Answer: A

With this configuration, a single in-sync replica is still readable, but not writeable if the producer using `acks=all`

QUESTION 14

A consumer is configured with `enable.auto.commit=false`. What happens when `close()` is called on the consumer object?

- A. The uncommitted offsets are committed
- B. A rebalance in the consumer group will happen immediately
- C. The group coordinator will discover that the consumer stopped sending heartbeats. It will cause rebalance after `session.timeout.ms`

Correct Answer: B

Calling `close()` on consumer immediately triggers a partition rebalance as the consumer will not be available anymore.

QUESTION 15

Your manager would like to have topic availability over consistency. Which setting do you need to change in order to enable that?

- A. `compression.type`
- B. `unclean.leader.election.enable`
- C. `min.insync.replicas`

Correct Answer: B

`unclean.leader.election.enable=true` allows non ISR replicas to become leader, ensuring availability but losing consistency as data loss will occur