CCDAK^{Q&As}

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QUESTION 1

Your streams application is reading from an input topic that has 5 partitions. You run 5 instances of your application, each with num.streams.threads set to 5. How many stream tasks will be created and how many will be active?

A. 5 created, 1 active

B. 5 created, 5 active

C. 25 created, 25 active

D. 25 created, 5 active

Correct Answer: D

One partition is assigned a thread, so only 5 will be active, and 25 threads (i.e. tasks) will be created

QUESTION 2

A bank uses a Kafka cluster for credit card payments. What should be the value of the property unclean.leader.election.enable?

A. FALSE

B. TRUE

Correct Answer: A

Setting unclean.leader.election.enable to true means we allow out-of-sync replicas to become leaders, we will lose messages when this occurs, effectively losing credit card payments and making our customers very angry.

QUESTION 3

Suppose you have 6 brokers and you decide to create a topic with 10 partitions and a replication factor of

3. The brokers 0 and 1 are on rack A, the brokers 2 and 3 are on rack B, and the brokers 4 and 5 are on rack C. If the leader for partition 0 is on broker 4, and the first replica is on broker 2, which broker can host the last replica? (select two)

A. 6

B. 1

C. 2

D. 5

E. 0

F. 3

Correct Answer: BE

When you create a new topic, partitions replicas are spreads across racks to maintain availability. Hence, the Rack A, which currently does not hold the topic partition, will be selected for the last replica

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QUESTION 4

By default, which replica will be elected as a partition leader? (select two)

A. Preferred leader broker if it is in-sync and auto.leader.rebalance.enable=true

B. Any of the replicas

C. Preferred leader broker if it is in-sync and auto.leader.rebalance.enable=false

D. An in-sync replica

Correct Answer: BD

Preferred leader is a broker that was leader when topic was created. It is preferred because when partitions are first created, the leaders are balanced between brokers. Otherwise, any of the in-sync replicas (ISR) will be elected leader, as long as unclean.leader.election=false (by default)

QUESTION 5

In Kafka, every broker... (select three)

A. contains all the topics and all the partitions

B. knows all the metadata for all topics and partitions

C. is a controller

D. knows the metadata for the topics and partitions it has on its disk

E. is a bootstrap broker

F. contains only a subset of the topics and the partitions

Correct Answer: BEF

Kafka topics are divided into partitions and spread across brokers. Each brokers knows about all the metadata and each broker is a bootstrap broker, but only one of them is elected controller