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Question: 53

A Zookeeper ensemble contains 3 servers.

Over which ports the members of the ensemble should be able to communicate in default configuration? (select three)

- A. 2181
- B. 3888
- C. 443
- D. 2888
- E. 9092
- F. 80

Answer: A,B,D

Explanation:

2181 – client port, 2888 – peer port, 3888 – leader port

Question: 54

You are running a Kafka Streams application in a Docker container managed by Kubernetes, and upon application restart, it takes a long time for the docker container to replicate the state and get back to processing the data .

How can you improve dramatically the application restart?

- A. Mount a persistent volume for your RocksDB
- B. Increase the number of partitions in your inputs topic
- C. Reduce the Streams caching property
- D. Increase the number of Streams threads

Answer: A

Explanation:

Although any Kafka Streams application is stateless as the state is stored in Kafka, it can take a while and lots of resources to recover the state from Kafka. In order to speed up recovery, it is advised to store the Kafka Streams state on a persistent volume, so that only the missing part of the state needs to be recovered.

Question: 55

A producer is sending messages with null key to a topic with 6 partitions using the DefaultPartitioner. Where will the messages be stored?

- A. Partition 5

- B. Any of the topic partitions
- C. The partition for the null key
- D. Partition 0

Answer: A

Explanation:

Message with no keys will be stored with round-robin strategy among partitions.

Question: 56

A kafka topic has a replication factor of 3 and min.insync.replicas setting of 2 .

How many brokers can go down before a producer with acks=all can't produce?

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

Answer: C

Explanation:

acks=all and min.insync.replicas=2 means we must have at least 2 brokers up for the partition to be available

Question: 57

How can you gracefully make a Kafka consumer to stop immediately polling data from Kafka and gracefully shut down a consumer application?

- A. Call consumer.wakeup() and catch a WakeUpException
- B. Call consumer.poll() in another thread
- C. Kill the consumer thread

Answer: A

Explanation:

See <https://stackoverflow.com/a/37748336/3019499>

Question: 58

A Zookeeper ensemble contains 5 servers .

What is the maximum number of servers that can go missing and the ensemble still run?

- A. 3
- B. 4
- C. 2

D. 1

Answer: C

Explanation:

majority consists of 3 zk nodes for 5 nodes zk cluster, so 2 can fail

Question: 59

You have a Kafka cluster and all the topics have a replication factor of 3. One intern at your company stopped a broker, and accidentally deleted all the data of that broker on the disk .

What will happen if the broker is restarted?

- A. The broker will start, and other topics will also be deleted as the broker data on the disk got deleted
- B. The broker will start, and won't be online until all the data it needs to have is replicated from other leaders
- C. The broker will crash
- D. The broker will start, and won't have any data. If the broker comes leader, we have a data loss

Answer: B

Explanation:

Kafka replication mechanism makes it resilient to the scenarios where the broker lose data on disk, but can recover from replicating from other brokers. This makes Kafka amazing!

Question: 60

In the Kafka consumer metrics it is observed that fetch-rate is very high and each fetch is small .

What steps will you take to increase throughput?

- A. Increase fetch.max.wait
- B. Increase fetch.max.bytes
- C. Decrease fetch.max.bytes
- D. Decrease fetch.min.bytes
- E. Increase fetch.min.bytes

Answer: E

Explanation:

This will allow consumers to wait and receive more bytes in each fetch request.

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