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**Vendor:**Confluent

**Exam Code:**CCDAK

**Exam Name:**Confluent Certified Developer for Apache  
Kafka Certification Examination

**Version:**Demo

### QUESTION 1

A consumer application is using KafkaAvroDeserializer to deserialize Avro messages. What happens if message schema is not present in AvroDeserializer local cache?

- A. Throws SerializationException
- B. Fails silently
- C. Throws DeserializationException
- D. Fetches schema from Schema Registry

Correct Answer: D

First local cache is checked for the message schema. In case of cache miss, schema is pulled from the schema registry. An exception will be thrown in the Schema Registry does not have the schema (which should never happen if you set it up properly)

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### QUESTION 2

Which of the following errors are retrievable from a producer perspective? (select two)

- A. MESSAGE\_TOO\_LARGE
- B. INVALID\_REQUIRED\_ACKS
- C. NOT\_ENOUGH\_REPLICAS
- D. NOT\_LEADER\_FOR\_PARTITION
- E. TOPIC\_AUTHORIZATION\_FAILED

Correct Answer: CD

Both of these are retrievable errors, others non-retrievable errors. See the full list of errors and their "retrievable" status here [https://kafka.apache.org/protocol#protocol\\_error\\_codes](https://kafka.apache.org/protocol#protocol_error_codes)

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### QUESTION 3

What's a Kafka partition made of?

- A. One file and one index
- B. One file
- C. One file and two indexes per segment
- D. One file and two indexes

Correct Answer: C

Kafka partitions are made of segments (usually each segment is 1GB), and each segment has two corresponding indexes (offset index and time index)

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#### QUESTION 4

You are doing complex calculations using a machine learning framework on records fetched from a Kafka topic. It takes more about 6 minutes to process a record batch, and the consumer enters rebalances even though it's still running. How can you improve this scenario?

- A. Increase `max.poll.interval.ms` to 600000
- B. Increase `heartbeat.interval.ms` to 600000
- C. Increase `session.timeout.ms` to 600000
- D. Add consumers to the consumer group and kill them right away

Correct Answer: A

Here, we need to change the setting `max.poll.interval.ms` (default 300000) to its double in order to tell Kafka a consumer should be considered dead if the consumer only if it hasn't called the `.poll()` method in 10 minutes instead of 5.

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#### QUESTION 5

If you enable an SSL endpoint in Kafka, what feature of Kafka will be lost?

- A. Cross-cluster mirroring
- B. Support for Avro format
- C. Zero copy
- D. Exactly-once delivery

Correct Answer: C

With SSL, messages will need to be encrypted and decrypted, by being first loaded into the JVM, so you lose the zero copy optimization. See more information here <https://twitter.com/ijuma/status/1161303431501324293?s=09>

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#### QUESTION 6

A consumer sends a request to commit offset 2000. There is a temporary communication problem, so the broker never gets the request and therefore never responds. Meanwhile, the consumer processed another batch and successfully committed offset 3000. What should you do?

- A. Add a new consumer to the group
- B. Use the `kafka-consumer-group` command to manually commit the offsets 2000 for the consumer group
- C. Restart the consumer

D. Nothing

Correct Answer: D

In this case, because the offset 3000 has been committed and all the messages between 0 and 3000 have all been processed, it is okay not to have committed offset 2000. The right answer is to do "nothing", this behaviour is acceptable

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#### QUESTION 7

You want to sink data from a Kafka topic to S3 using Kafka Connect. There are 10 brokers in the cluster, the topic has 2 partitions with replication factor of 3. How many tasks will you configure for the S3 connector?

A. 10

B. 6

C. 3

D. 2

Correct Answer: D

You cannot have more sink tasks (= consumers) than the number of partitions, so 2.

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#### QUESTION 8

In Java, Avro SpecificRecords classes are

A. automatically generated from an Avro Schema

B. written manually by the programmer

C. automatically generated from an Avro Schema + a Maven / Gradle Plugin

D. automatically generated from an Avro Schema + a Maven / Gradle Plugin

Correct Answer: C

SpecificRecord is created from generated record classes

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#### QUESTION 9

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

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#### QUESTION 10

How do you create a topic named test with 3 partitions and 3 replicas using the Kafka CLI?

- A. `bin/kafka-topics.sh --create --broker-list localhost:9092 --replication-factor 3 --partitions 3 --topic test`
- B. `bin/kafka-topics-create.sh --zookeeper localhost:9092 --replication-factor 3 --partitions 3 --topic test`
- C. `bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 3 --partitions 3 --topic test`
- D. `bin/kafka-topics.sh --create --bootstrap-server localhost:2181 --replication-factor 3 --partitions 3 --topic test`

Correct Answer: C

As of Kafka 2.3, the `kafka-topics.sh` command can take `--bootstrap-server localhost:9092` as an argument. You could also use the (now deprecated) option of `--zookeeper localhost:2181`.

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#### QUESTION 11

In Avro, adding an element to an enum without a default is a \_\_\_ schema evolution

- A. breaking
- B. full
- C. backward
- D. forward

Correct Answer: A

Since Confluent 5.4.0, Avro 1.9.1 is used. Since default value was added to enum complex type, the

schema resolution changed from:

(=1.9.1) if both are enums:

if the writer's symbol is not present in the reader's enum and the reader has a default value, then that value is used, otherwise an error is signalled.

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#### QUESTION 12

There are 3 producers writing to a topic with 5 partitions. There are 5 consumers consuming from the topic. How many Controllers will be present in the cluster?

- A. 3

B. 5

C. 2

D. 1

Correct Answer: D

There is only one controller in a cluster at all times.