

# Confluent

## Exam Questions CCDAK

Confluent Certified Developer for Apache Kafka Certification Examination



#### NEW QUESTION 1

What is true about replicas ?

- A. Produce requests can be done to the replicas that are followers
- B. Produce and consume requests are load-balanced between Leader and Follower replicas
- C. Leader replica handles all produce and consume requests
- D. Follower replica handles all consume requests

**Answer:** C

**Explanation:**

Replicas are passive - they don't handle produce or consume request. Produce and consume requests get sent to the node hosting partition leader.

#### NEW QUESTION 2

To continuously export data from Kafka into a target database, I should use

- A. Kafka Producer
- B. Kafka Streams
- C. Kafka Connect Sink
- D. Kafka Connect Source

**Answer:** C

**Explanation:**

Kafka Connect Sink is used to export data from Kafka to external databases and Kafka Connect Source is used to import from external databases into Kafka.

#### NEW QUESTION 3

A consumer starts and has `auto.offset.reset=none`, and the topic partition currently has data for offsets going from 45 to 2311. The consumer group has committed the offset 10 for the topic before. Where will the consumer read from?

- A. offset 45
- B. offset 10
- C. it will crash
- D. offset 2311

**Answer:** C

**Explanation:**

`auto.offset.reset=none` means that the consumer will crash if the offsets it's recovering from have been deleted from Kafka, which is the case here, as  $10 < 45$

#### NEW QUESTION 4

Which of these joins does not require input topics to be sharing the same number of partitions?

- A. KStream-KTable join
- B. KStream-KStream join
- C. KStream-GlobalKTable
- D. KTable-KTable join

**Answer:** C

**Explanation:**

GlobalKTables have their datasets replicated on each Kafka Streams instance and therefore no repartitioning is required

#### NEW QUESTION 5

What exceptions may be caught by the following producer? (select two)

```
ProducerRecord<String, String> record =  
new ProducerRecord<>("topic1", "key1", "value1"); try {  
    producer.send(record);  
} catch (Exception e) { e.printStackTrace();  
}
```

- A. BrokerNotAvailableException
- B. SerializationException
- C. InvalidPartitionsException
- D. BufferExhaustedException

**Answer:** BD

**Explanation:**

These are the client side exceptions that may be encountered before message is sent to the broker, and before a future is returned by the `.send()` method.

#### NEW QUESTION 6

Where are KSQL-related data and metadata stored?

- A. Kafka Topics
- B. Zookeeper

- C. PostgreSQL database
- D. Schema Registry

**Answer:** A

**Explanation:**

metadata is stored in and built from the KSQL command topic. Each KSQL server has its own in-memory version of the metastore.

**NEW QUESTION 7**

When using the Confluent Kafka Distribution, where does the schema registry reside?

- A. As a separate JVM component
- B. As an in-memory plugin on your Zookeeper cluster
- C. As an in-memory plugin on your Kafka Brokers
- D. As an in-memory plugin on your Kafka Connect Workers

**Answer:** A

**Explanation:**

Schema registry is a separate application that provides RESTful interface for storing and retrieving Avro schemas.

**NEW QUESTION 8**

What Java library is KSQL based on?

- A. Kafka Streams
- B. REST Proxy
- C. Schema Registry
- D. Kafka Connect

**Answer:** A

**Explanation:**

KSQL is based on Kafka Streams and allows you to express transformations in the SQL language that get automatically converted to a Kafka Streams program in the backend

**NEW QUESTION 9**

A client connects to a broker in the cluster and sends a fetch request for a partition in a topic. It gets an exception Not Leader For Partition Exception in the response. How does client handle this situation?

- A. Get the Broker id from Zookeeper that is hosting the leader replica and send request to it
- B. Send metadata request to the same broker for the topic and select the broker hosting the leader replica
- C. Send metadata request to Zookeeper for the topic and select the broker hosting the leader replica
- D. Send fetch request to each Broker in the cluster

**Answer:** B

**Explanation:**

In case the consumer has the wrong leader of a partition, it will issue a metadata request. The Metadata request can be handled by any node, so clients know afterwards which broker are the designated leader for the topic partitions. Produce and consume requests can only be sent to the node hosting partition leader.

**NEW QUESTION 10**

How will you find out all the partitions where one or more of the replicas for the partition are not in-sync with the leader?

- A. `kafka-topics.sh --bootstrap-server localhost:9092 --describe --unavailable- partitions`
- B. `kafka-topics.sh --zookeeper localhost:2181 --describe --unavailable- partitions`
- C. `kafka-topics.sh --broker-list localhost:9092 --describe --under-replicated-partitions`
- D. `kafka-topics.sh --zookeeper localhost:2181 --describe --under-replicated-partitions`

**Answer:** D

**NEW QUESTION 10**

What is a generic unique id that I can use for messages I receive from a consumer?

- A. topic + partition + timestamp
- B. topic + partition + offset
- C. topic + timestamp

**Answer:** B

**Explanation:**

(Topic,Partition,Offset) uniquely identifies a message in Kafka

**NEW QUESTION 11**

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

**Answer:** C

**Explanation:**

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.

**NEW QUESTION 16**

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

**Answer:** D

**Explanation:**

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

**NEW QUESTION 18**

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

**Answer:** C

**Explanation:**

SpecificRecord is created from generated record classes

**NEW QUESTION 20**

The kafka-console-consumer CLI, when used with the default options

- A. uses a random group id
- B. always uses the same group id
- C. does not use a group id

**Answer:** A

**Explanation:**

If a group is not specified, the kafka-console-consumer generates a random consumer group.

**NEW QUESTION 21**

A Kafka producer application wants to send log messages to a topic that does not include any key. What are the properties that are mandatory to configure for the producer configuration? (select three)

- A. bootstrap.servers
- B. partition
- C. key.serializer
- D. value.serializer
- E. key
- F. value

**Answer:** ACD

**Explanation:**

Both key and value serializer are mandatory.

**NEW QUESTION 25**

A consumer wants to read messages from a specific partition of a topic. How can this be achieved?

- A. Call subscribe(String topic, int partition) passing the topic and partition number as the arguments
- B. Call assign() passing a Collection of TopicPartitions as the argument
- C. Call subscribe() passing TopicPartition as the argument

**Answer:** B

**Explanation:**

assign() can be used for manual assignment of a partition to a consumer, in which case subscribe() must not be used. Assign() takes a collection of TopicPartition object as an argument <https://kafka.apache.org/23/javadoc/org/apache/kafka/clients/consumer/KafkaConsumer.html#assign-java.util.Collection->

#### NEW QUESTION 26

If a topic has a replication factor of 3...

- A. 3 replicas of the same data will live on 1 broker
- B. Each partition will live on 4 different brokers
- C. Each partition will live on 2 different brokers
- D. Each partition will live on 3 different brokers

**Answer:** D

**Explanation:**

Replicas are spread across available brokers, and each replica = one broker. RF 3 = 3 brokers

#### NEW QUESTION 28

To enhance compression, I can increase the chances of batching by using

- A. acks=all
- B. linger.ms=20
- C. batch.size=65536
- D. max.message.size=10MB

**Answer:** B

**Explanation:**

linger.ms forces the producer to wait before sending messages, hence increasing the chance of creating batches that can be heavily compressed.

#### NEW QUESTION 29

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

**Answer:** A

**Explanation:**

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

#### NEW QUESTION 34

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>

#### NEW QUESTION 35

Select the Kafka Streams joins that are always windowed joins.

- A. KStream-KStream join
- B. KTable-KTable join
- C. KStream-GlobalKTable
- D. KStream-KTable join

**Answer:** A

**Explanation:**

See <https://docs.confluent.io/current/streams/developer-guide/dsl-api.html#joining>

#### NEW QUESTION 39

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

**Answer:** D

**Explanation:**

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

#### NEW QUESTION 41

How will you find out all the partitions without a leader?

- A. kafka-topics.sh --broker-list localhost:9092 --describe --under-replicated-partitions
- B. kafka-topics.sh --bootstrap-server localhost:2181 --describe --unavailable-partitions
- C. kafka-topics.sh --zookeeper localhost:2181 --describe --unavailable-partitions
- D. kafka-topics.sh --zookeeper localhost:2181 --describe --under-replicated-partitions

**Answer:** C

#### Explanation:

Please note that as of Kafka 2.2, the --zookeeper option is deprecated and you can now use kafka-topics.sh --bootstrap-server localhost:9092 --describe --unavailable-partitions

#### NEW QUESTION 45

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 produce request with acks=all is sent to broker?

- A. NotEnoughReplicasException will be returned
- B. Produce request is honored with single in-sync replica
- C. Produce request will block till one of the two unavailable partition is available again.

**Answer:** A

#### Explanation:

With this configuration, a single in-sync replica becomes read-only. Produce request will receive NotEnoughReplicasException.

#### NEW QUESTION 48

You are receiving orders from different customer in an "orders" topic with multiple partitions. Each message has the customer name as the key. There is a special customer named ABC that generates a lot of orders and you would like to reserve a partition exclusively for ABC. The rest of the message should be distributed among other partitions. How can this be achieved?

- A. Add metadata to the producer record
- B. Create a custom partitioner
- C. All messages with the same key will go the same partition, but the same partition may have messages with different key
- D. It is not possible to reserve
- E. Define a Kafka Broker routing rule

**Answer:** B

#### Explanation:

A Custom Partitioner allows you to easily customise how the partition number gets computed from a source message.

#### NEW QUESTION 51

A producer application in a developer machine was able to send messages to a Kafka topic. After copying the producer application into another developer's machine, the producer is able to connect to Kafka but unable to produce to the same Kafka topic because of an authorization issue. What is the likely issue?

- A. Broker configuration needs to be changed to allow a different producer
- B. You cannot copy a producer application from one machine to another
- C. The Kafka ACL does not allow another machine IP
- D. The Kafka Broker needs to be rebooted

**Answer:** C

#### Explanation:

ACLs take "Host" as a parameter, which represents an IP. It can be \* (all IP), or a specific IP. Here, it's a specific IP as moving a producer to a different machine breaks the consumer, so the ACL needs to be updated

#### NEW QUESTION 56

A producer just sent a message to the leader broker for a topic partition. The producer used acks=1 and therefore the data has not yet been replicated to followers. Under which conditions will the consumer see the message?

- A. Right away
- B. When the message has been fully replicated to all replicas
- C. Never, the produce request will fail
- D. When the high watermark has advanced

**Answer:** D

#### Explanation:

The high watermark is an advanced Kafka concept, and is advanced once all the ISR replicates the latest offsets. A consumer can only read up to the value of the High Watermark (which can be less than the highest offset, in the case of acks=1)

#### NEW QUESTION 60

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 65**

What isn't a feature of the Confluent schema registry?

- A. Store avro data
- B. Enforce compatibility rules
- C. Store schemas

**Answer:** A

**Explanation:**

Data is stored on brokers.

**NEW QUESTION 68**

To produce data to a topic, a producer must provide the Kafka client with...

- A. the list of brokers that have the data, the topic name and the partitions list
- B. any broker from the cluster and the topic name and the partitions list
- C. all the brokers from the cluster and the topic name
- D. any broker from the cluster and the topic name

**Answer:** D

**Explanation:**

All brokers can respond to a Metadata request, so a client can connect to any broker in the cluster and then figure out on its own which brokers to send data to.

**NEW QUESTION 73**

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. 2
- C. 1

**Answer:** C

**Explanation:**

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

**NEW QUESTION 77**

In Avro, adding a field to a record without default is a schema evolution

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

**Answer:** A

**Explanation:**

Clients with old schema will be able to read records saved with new schema.

**NEW QUESTION 78**

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

**Answer:** A

**Explanation:**

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



#### NEW QUESTION 80

The exactly once guarantee in the Kafka Streams is for which flow of data?

- A. Kafka => Kafka
- B. Kafka => External
- C. External => Kafka

**Answer:** A

#### Explanation:

Kafka Streams can only guarantee exactly once processing if you have a Kafka to Kafka topology.

#### NEW QUESTION 84

To allow consumers in a group to resume at the previously committed offset, I need to set the proper value for...

- A. value.deserializer
- B. auto.offset.resets
- C. group.id
- D. enable.auto.commit

**Answer:** C

#### Explanation:

Setting a group.id that's consistent across restarts will allow your consumers part of the same group to resume reading from where offsets were last committed for that group

#### NEW QUESTION 86

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

**Answer:** CD

#### Explanation:

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)

#### NEW QUESTION 87

Where are the ACLs stored in a Kafka cluster by default?

- A. Inside the broker's data directory
- B. Under Zookeeper node /kafka-acl/
- C. In Kafka topic kafka\_acls
- D. Inside the Zookeeper's data directory

**Answer:** A

#### Explanation:

ACLs are stored in Zookeeper node /kafka-acls/ by default.

#### NEW QUESTION 90

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