1. According to the exhibit below, which broker will handle all input for partition 1 of topic

“driver”. (Choose one)

a. 101

b. 102 Correct

c. 103

2. Using the Range partition assignment strategy, which of the specified partition assignments will

occur? (Choose one)

a.

b.

c.

d.

Topic A partition 0 and topic A partition 1 will be assigned to the same consumer

Topic A partition 0 and topic B partition 1 will be assigned to the same consumer

Topic A partition 0 and topic B partition 0 will be assigned to the same consumer Correct

Topic B partition 0 and topic B partition 1 will be assigned to the same consumer

3. You need all messages produced with a certain key value to be written to a single topic

partition. What would you do to accomplish this? (choose one)

a. Create a producer group and configure each producer in the group to produce messages

for a single key value

b. Invoke your producer in multiple threads and assign each producer to produce

messages for a single key value

c. No action is necessary, the default partitioner will accomplish this Correct

d. Configure your producer to send messages for all key values to one broker and

configure that broker to redirect those messages to partitions based upon the message

key value

4. You need to guarantee that your clients can access required Kafka cluster metadata when they

start up. What would you do to accomplish this? (choose one)

a. Provide bootstrap configuration that identifies a minimum of two Zookeeper servers to

send a request for cluster metadata

b. Provide bootstrap configuration that identifies a minimum of two Kafka brokers to

send a request for cluster metadata Correct

c. Provide bootstrap configuration that identifies the Kafka cluster controller to send a

request for cluster metadata

d. Provide bootstrap configuration with the cluster id that the Kafka client uses to discover

the cluster and all its related metadata

5. You need to guarantee messages are produced to Kafka at most once. What would you do to

implement this? (choose two)

a. Set acks=ALL

b. Set acks=0 Correct

c. Set acks=1 Correct

6. Your priority for producing messages to the Kafka cluster is maximum throughput over low

latency. What would you do to accomplish this? (choose one)

a. Set batch.size low value and linger.ms to 0

b. Set batch.size high value and linger.ms to 0

c. Set batch.size low value and linger.ms to high value

d. Set batch.size high value and linger.ms to high value Correct

7. Your Kafka cluster consists of 3 brokers. You have 4 producer clients sending messages to the

“driver” topic which currently has 12 partitions and the related produce requests are receiving

timeout exceptions. What would you do to reduce these exceptions? (choose one)

a. Increase the number of producer clients from 4 to 6

b. Increase the number of “driver” topic partitions from 12 to 15

c. Increase the number of brokers from 3 to 4 and distribute the 12 partitions equally

across the 4 brokers Correct

d. Increase the replication factor of the “driver” topic to scale out the produce requests Wrong

8. Your organization is developing an application that produces messages to Kafka with a

requirement that the messages are evenly distributed across a topic with 20 partitions. After

completing the initial design phase and client development, load testing resulted in the

following:

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5% of test messages were written to 5 partitions

20% of test messages were written to 10 partitions

75% of test message were written to 5 partitions

Key assignment for the test messages correctly represented what is expected for the

production environment

What action might result in more even distribution of produced messages across the available

partitions? (choose two)

a.

b.

c.

d.

Write a custom partitioner Correct

Increase the number of producer clients used by the application

Redesign the message key Correct

Distribute the topic partitions across additional brokers

9. Your organization is developing an application that will render content on web pages based

upon how the current user matches up against various demographic categories. When the user

first accesses the web page it will generate a page view event written to a corresponding Kafka

topic. The user profile database will also be ingested into a Kafka topic using a Kafka connector.How do the web page view events and the user profile data need to be produced into their

respective topics to allow for the application to easily associate each page view event with the

corresponding user profile? (choose one)

a. Configure the two topics so that they are written to the same Kafka cluster

b. Configure the two topics so they are co-partitioned Correct

c. Stand up a producer and a Kafka connector on each client machine and assign these

machines a subset of page view and corresponding user profile data

d. Write a consumer application that processes all records in both the page view and user

profile topics and allow it to associate these records as needed

10. Your organization has a requirement to enrich data coming in from sensor devices that capture

environmental data with sensor device profile data contained in a database that includes details

such as location, device model, etc. Which of the following scenarios would best answer this

requirement? (choose one)

a. Produce the data coming from the sensor devices into a Kafka topic using the Message

Queuing Telemetry Transport (MQTT) proxy and as an intermediate step, enrich each

sensor data record using the Java database connectivity (JDBC) source connector to

access the sensor device profile data combined with multiple single message transforms

(SMT).

b. Produce the data coming from the sensor devices into a Kafka topic using the MQTT

connector and as an intermediate step, enrich each sensor data record using the JDBC

sink connector to access the sensor device profile data combined with multiple SMTs.

c. Produce the data coming from the sensor devices into a Kafka topic using the MQTT

proxy. Produce the sensor device profile data into a second Kafka topic using the JDBC

source connector. Write a Kafka streams application to enrich the sensor data records

with the sensor device profile data and write this out to a third Kafka topic. Correct

d. Write a Kafka producer client that captures the sensor device data using the MQTT

proxy and enriches each record using sensor device profile data that it directly accesses

from the source database. The enriched records will then be produced into a Kafka

topic.

11. Your organization has a Kafka streams application that requires access to customer profile data

maintained in a traditional relational database management system (RDBMS). This customer

profile data contains sensitive Personal Identifying Information (PII). Which of the following

solutions will give the Kafka streams application access to the non-PII customer profile data?

(choose one)

a. Use the Java database connectivity (JDBC) source connector to produce the customer

profile data to a Kafka topic. Use a Kafka streams application to process and remove the

PII from each customer profile data record as it is written to the initial Kafka topic. The

Kafka streams application can then consume that topic. Wrong

b. Use the JDBC source connector to produce the customer profile data to a Kafka topic.

Include a single message transform masking operation in the connector configuration

to mask the PII data before it is written to the Kafka topic. The Kafka streams

application can then consume that topic. Correct

c. Use a ksqlDB application to read the customer profile data in the RDBMS, filter the PII

data from each record, and write the filtered profile data to a Kafka topic. The Kafka

streams application can then consume that topic.

d. Write a custom Kafka producer to access the customer profile data, remove the

customer PII from each record, and produce the filtered record to a Kafka topic. The

Kafka streams application can then consume that topic.

12. Your organization has an application that uses a Kafka source connector to produce records into

a Kafka topic. The load on this application varies depending upon the quantity of daily customer

purchases. Which of the following will best accommodate this variable load on the application?

a. Increase and decrease the number of brokers in the Kafka cluster based upon current

application load.

b. Increase and decrease the number of Kafka connector tasks based upon current

application load. Wrong

c. Increase and decrease the number of Kafka connect workers based upon current

application load. Correct

d. Increase and decrease the number of Kafka topic partitions to which records are written

based upon current application load.

13. Your organization has legacy data stored in relational database management system (RDBMS). It

has a requirement to ingest this legacy data into Kafka and transform it into multiple formats so

that is can be easily processed various microservices that the organization now relies on. The

development team that is assigned this task has experience using structured query language

(SQL) procedures as part of its role managing data within the legacy RDBMS. Considering these

factors, which of the following solutions is the best choice to satisfy the requirement? (choose

one)

a. Use the Java database connectivity (JDBC) source connector to produce the legacy data

to a Kafka topic. Use a Kafka streams application to transform the data as needed.

b. Create a new database schema in the RDBMS that meets the requirements of the

microservices and transform the legacy data from the existing schema to the new

schema using SQL procedures. Use the Java database connectivity (JDBC) source

connector to produce the legacy data to a Kafka topic.

c. Use the Java database connectivity (JDBC) source connector to produce the legacy

data to a Kafka topic. Use ksqlDB to transform the data as needed and direct the

resulting data to new Kafka topics. Correct

d. Use the JDBC source connector to produce the legacy data to multiple Kafka topics. For

each destination Kafka topic, include single message transforms as needed to transform

the data to meet the requirement for that topic.