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Amazon AWS Certified Data Engineer - Associate (DEA-C01) Sample Questions (Q23-Q28):

NEW QUESTION # 23

A healthcare company uses Amazon Kinesis Data Streams to stream real-time health data from wearable devices, hospital equipment, and patient records.

A data engineer needs to find a solution to process the streaming data

a. The data engineer needs to store the data in an Amazon Redshift Serverless warehouse. The solution must support near real-time analytics of the streaming data and the previous day's data.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Load data into Amazon Kinesis Data Firehose. Load the data into Amazon Redshift.
- B. Load the data into Amazon S3. Use the COPY command to load the data into Amazon Redshift.
- **C. Use the streaming ingestion feature of Amazon Redshift.**
- D. Use the Amazon Aurora zero-ETL integration with Amazon Redshift.

Answer: C

Explanation:

The streaming ingestion feature of Amazon Redshift enables you to ingest data from streaming sources, such as Amazon Kinesis Data Streams, into Amazon Redshift tables in near real-time. You can use the streaming ingestion feature to process the streaming data from the wearable devices, hospital equipment, and patient records. The streaming ingestion feature also supports incremental

updates, which means you can append new data or update existing data in the Amazon Redshift tables. This way, you can store the data in an Amazon Redshift Serverless warehouse and support near real-time analytics of the streaming data and the previous day's data. This solution meets the requirements with the least operational overhead, as it does not require any additional services or components to ingest and process the streaming data. The other options are either not feasible or not optimal. Loading data into Amazon Kinesis Data Firehose and then into Amazon Redshift (option A) would introduce additional latency and cost, as well as require additional configuration and management. Loading data into Amazon S3 and then using the COPY command to load the data into Amazon Redshift (option C) would also introduce additional latency and cost, as well as require additional storage space and ETL logic. Using the Amazon Aurora zero-ETL integration with Amazon Redshift (option D) would not work, as it requires the data to be stored in Amazon Aurora first, which is not the case for the streaming data from the healthcare company. Reference: Using streaming ingestion with Amazon Redshift
AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide, Chapter 3: Data Ingestion and Transformation, Section 3.5: Amazon Redshift Streaming Ingestion

NEW QUESTION # 24

A company wants to migrate data from an Amazon RDS for PostgreSQL DB instance in the eu-east-1 Region of an AWS account named Account_A. The company will migrate the data to an Amazon Redshift cluster in the eu-west-1 Region of an AWS account named Account_B.

Which solution will give AWS Database Migration Service (AWS DMS) the ability to replicate data between two data stores?

- A. Set up an AWS DMS replication instance in Account_B in eu-east-1.
- B. Set up an AWS DMS replication instance in Account_A in eu-east-1.
- **C. Set up an AWS DMS replication instance in Account_B in eu-west-1.**
- D. Set up an AWS DMS replication instance in a new AWS account in eu-west-1

Answer: C

Explanation:

To migrate data from an Amazon RDS for PostgreSQL DB instance in the eu-east-1 Region (Account_A) to an Amazon Redshift cluster in the eu-west-1 Region (Account_B), AWS DMS needs a replication instance located in the target region (in this case, eu-west-1) to facilitate the data transfer between regions.

* Option A: Set up an AWS DMS replication instance in Account_B in eu-west-1. Placing the DMS replication instance in the target account and region (Account_B in eu-west-1) is the most efficient solution. The replication instance can connect to the source RDS PostgreSQL in eu-east-1 and migrate the data to the Redshift cluster in eu-west-1. This setup ensures data is replicated across AWS accounts and regions.

Options B, C, and D place the replication instance in either the wrong account or region, which increases complexity without adding any benefit.

References:

- * AWS Database Migration Service (DMS) Documentation
- * Cross-Region and Cross-Account Replication

NEW QUESTION # 25

A company implements a data mesh that has a central governance account. The company needs to catalog all data in the governance account. The governance account uses AWS Lake Formation to centrally share data and grant access permissions.

The company has created a new data product that includes a group of Amazon Redshift Serverless tables. A data engineer needs to share the data product with a marketing team. The marketing team must have access to only a subset of columns. The data engineer needs to share the same data product with a compliance team. The compliance team must have access to a different subset of columns than the marketing team needs access to.

Which combination of steps should the data engineer take to meet these requirements? (Select TWO.)

- A. Share the Amazon Redshift data share to the Lake Formation catalog in the governance account.
- **B. Create views of the tables that need to be shared. Include only the required columns.**
- C. Create an Amazon Redshift managed VPC endpoint in the marketing team's account. Grant the marketing team access to the views.
- D. Create an Amazon Redshift data catalog that includes the tables that need to be shared.
- **E. Share the Amazon Redshift data share to the Amazon Redshift Serverless workgroup in the marketing team's account.**

Answer: B,E

Explanation:

The company is using a data mesh architecture with AWS Lake Formation for governance and needs to share specific subsets of data with different teams (marketing and compliance) using Amazon Redshift Serverless.

Option A: Create views of the tables that need to be shared. Include only the required columns.

Creating views in Amazon Redshift that include only the necessary columns allows for fine-grained access control. This method ensures that each team has access to only the data they are authorized to view.

Option E: Share the Amazon Redshift data share to the Amazon Redshift Serverless workgroup in the marketing team's account. Amazon Redshift data sharing enables live access to data across Redshift clusters or Serverless workgroups. By sharing data with specific workgroups, you can ensure that the marketing team and compliance team each access the relevant subset of data based on the views created.

Option B (creating a Redshift data share) is close but does not address the fine-grained column-level access.

Option C (creating a managed VPC endpoint) is unnecessary for sharing data with specific teams.

Option D (sharing with the Lake Formation catalog) is incorrect because Redshift data shares do not integrate directly with Lake Formation catalogs; they are specific to Redshift workgroups.

Reference:

Amazon Redshift Data Sharing

AWS Lake Formation Documentation

NEW QUESTION # 26

A data engineer needs to schedule a workflow that runs a set of AWS Glue jobs every day. The data engineer does not require the Glue jobs to run or finish at a specific time.

Which solution will run the Glue jobs in the MOST cost-effective way?

- A. Choose the latest version in the GlueVersion field in the Glue job properties.
- B. Choose the STANDARD execution class in the Glue job properties.
- **C. Choose the FLEX execution class in the Glue job properties.**
- D. Use the Spot Instance type in Glue job properties.

Answer: C

Explanation:

The FLEX execution class allows you to run AWS Glue jobs on spare compute capacity instead of dedicated hardware. This can reduce the cost of running non-urgent or non-time sensitive data integration workloads, such as testing and one-time data loads. The FLEX execution class is available for AWS Glue 3.0 Spark jobs. The other options are not as cost-effective as FLEX, because they either use dedicated resources (STANDARD) or do not affect the cost at all (Spot Instance type and GlueVersion). Reference:

Introducing AWS Glue Flex jobs: Cost savings on ETL workloads

Serverless Data Integration - AWS Glue Pricing

AWS Certified Data Engineer - Associate DEA-C01 Complete Study Guide (Chapter 5, page 125)

NEW QUESTION # 27

A financial company recently added more features to its mobile app. The new features required the company to create a new topic in an existing Amazon Managed Streaming for Apache Kafka (Amazon MSK) cluster.

A few days after the company added the new topic, Amazon CloudWatch raised an alarm on the RootDiskUsed metric for the MSK cluster.

How should the company address the CloudWatch alarm?

- A. Update the MSK broker instance to a larger instance type. Restart the MSK cluster.
- **B. Expand the storage of the MSK broker. Configure the MSK cluster storage to expand automatically.**
- C. Specify the Target-Volume-in-GiB parameter for the existing topic.
- D. Expand the storage of the Apache ZooKeeper nodes.

Answer: B

Explanation:

TheRootDiskUsedmetric for the MSK cluster indicates that the storage on the broker is reaching its capacity.

The best solution is to expand the storage of the MSK broker and enable automatic storage expansion to prevent future alarms.

* Expand MSK Broker Storage:

* AWS Managed Streaming for Apache Kafka (MSK) allows you to expand the broker storage to accommodate growing data volumes. Additionally, auto-expansion of storage can be configured to ensure that storage grows automatically as the data increases.

Reference: Amazon MSK Cluster Storage Expansion

Alternatives Considered:

B (Expand Zookeeper storage): Zookeeper is responsible for managing Kafka metadata and not for storing data, so increasing Zookeeper storage won't resolve the root disk issue.

C (Update instance type): Changing the instance type would increase computational resources but not directly address the storage problem.

D (Target-Volume-in-GiB): This parameter is irrelevant for the existing topic and will not solve the storage issue.

References:

Amazon MSK Storage Auto Scaling

NEW QUESTION # 28

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