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AWS Certified Data Analytics - Specialty (DAS-C01)

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QUESTION 1

A banking company is currently using an Amazon Redshift cluster with dense storage (DS) nodes to store sensitive data. An audit found that the cluster is unencrypted. Compliance requirements state that a database with sensitive data must be encrypted through a hardware security module (HSM) with automated key rotation.

Which combination of steps is required to achieve compliance? (Choose two.)

A. Set up a trusted connection with HSM using a client and server certificate with automatic key rotation.

B. Modify the cluster with an HSM encryption option and automatic key rotation.

C. Create a new HSM-encrypted Amazon Redshift cluster and migrate the data to the new cluster.

D. Enable HSM with key rotation through the AWS CLI.

E. Enable Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) encryption in the HSM.

Correct Answer: AC

Reference: https://docs.aws.amazon.com/redshift/latest/mgmt/working-with-db-encryption.html

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QUESTION 2

A company receives data in CSV format from partners. The company stores this incoming raw data in Amazon S3. The company must clean the data by addressing missing values, incorrect formatting, and outlier values before the company sends the data to a reporting dashboard.

Which solution will meet these requirements with the LEAST development effort?

A. Implement an AWS Glue ETL job. Include the data cleaning logic in the ETL job.

B. Create an AWS Glue DataBrew recipe job. Include appropriate steps in the recipe job to detect and change specific data fields.

C. Launch an Amazon EMR cluster. Run an Apache Spark job to read and clean the data. Include the data cleaning logic in the Spark job.

D. Use an Amazon EMR serverless runtime. Run an Apache Spark job to read and clean the data. Include the data cleaning logic in the Spark job.

Correct Answer: A

QUESTION 3

A data analytics specialist needs to prepare an inventory report for a company\\'s online store. The data for the report is contained in MySQL databases, PostgreSQL databases, Amazon DynamoDB tables, and Amazon S3 buckets. How can the data analytics specialist prepare the report with the LEAST operational overhead?

A. Use an AWS Glue crawler to catalog the databases. Configure an AWS Glue ETL job to transfer the required data from the databases to Amazon S3. Query the data in Amazon Athena to generate the report.

B. Launch an Amazon EMR cluster to transfer the required data from the databases to Amazon S3. Query the data in Amazon Athena to generate the report.

C. Deploy Amazon Athena data source connectors for MySQL, PostgreSQL, and DynamoDB. Use Amazon Athena Federated Query to generate the report.

D. Use AWS Database Migration Service (AWS DMS) to transfer the required data from the databases to Amazon S3. Query the data in Amazon Athena to generate the report.

Correct Answer: D

QUESTION 4

A streaming application is reading data from Amazon Kinesis Data Streams and immediately writing the data to an Amazon S3 bucket every 10 seconds. The application is reading data from hundreds of shards. The batch interval cannot be changed due to a separate requirement. The data is being accessed by Amazon Athena. Users are seeing degradation in query performance as time progresses.

Which action can help improve query performance?

A. Merge the files in Amazon S3 to form larger files.

B. Increase the number of shards in Kinesis Data Streams.

C. Add more memory and CPU capacity to the streaming application.

D. Write the files to multiple S3 buckets.

Correct Answer: C

QUESTION 5

A team of data scientists plans to analyze market trend data for their company\\'s new investment strategy. The trend data comes from five different data sources in large volumes. The team wants to utilize Amazon Kinesis to support their use case. The team uses SQL-like queries to analyze trends and wants to send notifications based on certain significant patterns in the trends. Additionally, the data scientists want to save the data to Amazon S3 for archival and historical reprocessing, and use AWS managed services wherever possible. The team wants to implement the lowest-cost solution.

Which solution meets these requirements?

A. Publish data to one Kinesis data stream. Deploy a custom application using the Kinesis Client Library (KCL) for analyzing trends, and send notifications using Amazon SNS. Configure Kinesis Data Firehose on the Kinesis data stream to persist data to an S3 bucket.

B. Publish data to one Kinesis data stream. Deploy Kinesis Data Analytic to the stream for analyzing trends, and configure an AWS Lambda function as an output to send notifications using Amazon SNS. Configure Kinesis Data Firehose on the Kinesis data stream to persist data to an S3 bucket.

C. Publish data to two Kinesis data streams. Deploy Kinesis Data Analytics to the first stream for analyzing trends, and configure an AWS Lambda function as an output to send notifications using Amazon SNS. Configure Kinesis Data

Firehose on the second Kinesis data stream to persist data to an S3 bucket.

D. Publish data to two Kinesis data streams. Deploy a custom application using the Kinesis Client Library (KCL) to the first stream for analyzing trends, and send notifications using Amazon SNS. Configure Kinesis Data Firehose on the second Kinesis data stream to persist data to an S3 bucket.

Correct Answer: A

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