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QUESTION 1

A company is planning to use Amazon RDS for SQL Server for one of its critical applications. The company\\'s security team requires that the users of the RDS for SQL Server DB instance are authenticated with on-premises Microsoft Active Directory credentials.

Which combination of steps should a database specialist take to meet this requirement? (Choose three.)

A. Extend the on-premises Active Directory to AWS by using AD Connector.

B. Create an IAM user that uses the AmazonRDSDirectoryServiceAccess managed IAM policy.

C. Create a directory by using AWS Directory Service for Microsoft Active Directory.

D. Create an Active Directory domain controller on Amazon EC2.

E. Create an IAM role that uses the AmazonRDSDirectoryServiceAccess managed IAM policy.

F. Create a one-way forest trust from the AWS Directory Service for Microsoft Active Directory directory to the on-premises Active Directory.

Correct Answer: CEF

QUESTION 2

A company is using Amazon Redshift. A database specialist needs to allow an existing Redshift cluster to access data from other Redshift clusters. Amazon RDS for PostgreSQL databases, and AWS Glue Data Catalog tables.

Which combination of steps will meet these requirements with the MOST operational efficiency? (Choose three.)

A. Take a snapshot of the required tables from the other Redshift clusters. Restore the snapshot into the existing Redshift cluster.

B. Create external tables in the existing Redshift database to connect to the AWS Glue Data Catalog tables.

C. Unload the RDS tables and the tables from the other Redshift clusters into Amazon S3. Run COPY commands to load the tables into the existing Redshift cluster.

D. Use federated queries to access data in Amazon RDS.

E. Use data sharing to access data from the other Redshift clusters.

F. Use AWS Glue jobs to transfer the AWS Glue Data Catalog tables into Amazon S3. Create external tables in the existing Redshift database to access this data.

Correct Answer: BDE

Explanation:

QUESTION 3

A database specialist is planning to migrate a 4 TB Microsoft SQL Server DB instance from on premises to Amazon RDS for SQL Server. The database is primarily used for nightly batch processing.

Which RDS storage option meets these requirements MOST cost-effectively?

A. General Purpose SSD storage

B. Provisioned IOPS storage

C. Magnetic storage

D. Throughput Optimized hard disk drives (HDD)

Correct Answer: A

Explanation: General Purpose SSD storage is a cost-effective storage option that is ideal for a broad range of workloads running on medium-sized DB instances1. General Purpose storage is best suited for development and testing environments1. Since the database is primarily used for nightly batch processing, it does not require high I/O performance or low latency that Provisioned IOPS storage offers12. Magnetic storage and Throughput Optimized HDD are not recommended for new storage needs, and they have lower storage limits than General Purpose SSD and Provisioned IOPS SSD1. Therefore, General Purpose SSD storage meets the requirements most cost-effectively.

QUESTION 4

The Security team for a finance company was notified of an internal security breach that happened 3 weeks ago. A Database Specialist must start producing audit logs out of the production Amazon Aurora PostgreSQL cluster for the Security team to use for monitoring and alerting. The Security team is required to perform real- time alerting and monitoring outside the Aurora DB cluster and wants to have the cluster push encrypted files to the chosen solution.

Which approach will meet these requirements?

A. Use pg_audit to generate audit logs and send the logs to the Security team.

B. Use AWS CloudTrail to audit the DB cluster and the Security team will get data from Amazon S3.

C. Set up database activity streams and connect the data stream from Amazon Kinesis to consumer applications.

D. Turn on verbose logging and set up a schedule for the logs to be dumped out for the Security team.

Correct Answer: C

https://aws.amazon.com/about-aws/whats-new/2019/05/amazon-aurora-with-postgresql- compatibility-supports-database-activity-streams/

"Database Activity Streams for Amazon Aurora with PostgreSQL compatibility provides a near real-time data stream of the database activity in your relational database to help you monitor activity. When integrated with third party database

activity monitoring tools, Database Activity Streams can monitor and audit database activity to provide safeguards for your database and help meet compliance and regulatory requirements."

https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Overview.LoggingAnd Monitoring.html

QUESTION 5

A company wants to migrate its existing on-premises Oracle database to Amazon Aurora PostgreSQL. The migration must be completed with minimal downtime using AWS DMS. A Database Specialist must validate that the data was migrated accurately from the source to the target before the cutover. The migration must have minimal impact on the performance of the source database.

Which approach will MOST effectively meet these requirements?

A. Use the AWS Schema Conversion Tool (AWS SCT) to convert source Oracle database schemas to the target Aurora DB cluster. Verify the datatype of the columns.

B. Use the table metrics of the AWS DMS task created for migrating the data to verify the statistics for the tables being migrated and to verify that the data definition language (DDL) statements are completed.

C. Enable the AWS Schema Conversion Tool (AWS SCT) premigration validation and review the premigration checklist to make sure there are no issues with the conversion.

D. Enable AWS DMS data validation on the task so the AWS DMS task compares the source and target records, and reports any mismatches.

Correct Answer: D

Explanation: "To ensure that your data was migrated accurately from the source to the target, we highly recommend that you use data validation." https://docs.aws.amazon.com/dms/latest/userguide/CHAP_BestPractices.html

Reference: https://docs.aws.amazon.com/dms/latest/userguide/CHAP_Validating.html

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