

# BDS-C00<sup>Q&As</sup>

AWS Certified Big Data - Speciality (BDS-C00)

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#### QUESTION 1

You are working with customer who has 10 TB of archival data that they want to migrate to Amazon Glacier. The customer has a 1Mbps connection to the Internet. Which service or feature provide the fastest method of getting the data into Amazon Glacier?

- A. Amazon Glacier multipart upload
- B. AWS Storage Gateway
- C. VM Import/Export
- D. AWS Import/Export

Correct Answer: D

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#### QUESTION 2

What does the "Server Side Encryption" option on Amazon S3 provide?

- A. It provides an encrypted virtual disk in the Cloud.
- B. It doesn't exist for Amazon S3, but only for Amazon EC2.
- C. It encrypts the files that you send to Amazon S3, on the server side.
- D. It allows to upload files using an SSL endpoint, for a secure transfer.

Correct Answer: A

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#### QUESTION 3

Does AWS Direct Connect allow you access to all Availabilities Zones within a Region?

- A. Depends on the type of connection
- B. No
- C. Yes
- D. Only when there's just one availability zone in a region. If there are more than one, only one availability zone can be accessed directly.

Correct Answer: A

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#### QUESTION 4

In AWS, which security aspects are the customer's responsibility? Choose 4 answers

- A. Life-Cycle management of IAM credentials
- B. Security Group and ACL settings
- C. Controlling physical access to compute resources
- D. Patch management on the EC2 instance's operating system
- E. Encryption of EBS volumes
- F. Decommissioning storage devices

Correct Answer: ABDE

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#### QUESTION 5

A user has provisioned 2000 IOPS to the EBS volume. The application hosted on that EBS is experiencing less IOPS than provisioned.

Which of the below mentioned options does not affect the IOPS of the volume?

- A. The application does not have enough IO for the volume
- B. The instance is EBS optimized
- C. The EC2 instance has 10 Gigabit Network connectivity
- D. The volume size is too large

Correct Answer: D

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#### QUESTION 6

Does Amazon RDS for SQL Server currently support importing data into the msdb database?

- A. No
- B. Yes

Correct Answer: A

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#### QUESTION 7

When using the following AWS services, which should be implemented in multiple Availability Zones for high availability solutions? Choose 2 answers

- A. Amazon Simple Storage Service
- B. Amazon Elastic Load Balancing

- C. Amazon Elastic Compute Cloud
- D. Amazon Simple Notification Service
- E. Amazon DynamoDB

Correct Answer: BC

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### QUESTION 8

A clinical trial will rely on medical sensors to remotely assess patient health. Each physician who participates in the trial requires visual reports each morning. The reports are built from aggregations of all the sensor data taken each minute.

What is the most cost-effective solution for creating this visualization each day?

- A. Use Kinesis Aggregators Library to generate reports for reviewing the patient sensor data and generate a QuickSight visualization on the new data each morning for the physician to review.
- B. Use a transient EMR cluster that shuts down after use to aggregate the sensor data each night and generate a QuickSight visualization on the new data each morning for the physician to review.
- C. Use Spark streaming on EMR to aggregate the patient sensor data in every 15 minutes and generate a QuickSight visualization on the new data each morning for the physician to review.
- D. Use an EMR cluster to aggregate the patient sensor data each night and provide Zeppelin notebooks that look at the new data residing on the cluster each morning for the physician to review.

Correct Answer: D

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### QUESTION 9

A gaming organization is developing a new game and would like to offer real-time competition to their users. The data architecture has the following characteristics:

1.  
The game application is writing events directly to Amazon DynamoDB from the user's mobile device.
2.  
Users from the website can access their statistics directly from DynamoDB.
3.  
The game servers are accessing DynamoDB to update the user's information.
4.  
The data science team extracts data from DynamoDB for various applications.
5.  
The engineering team has already agreed to the IAM roles and policies to use for the data science team and the

application.

Which actions will provide the MOST security, while maintaining the necessary access to the website and game application? (Choose two.)

- A. Use Amazon Cognito user pool to authenticate to both the website and the game application.
- B. Use IAM identity federation to authenticate to both the website and the game application.
- C. Create an IAM policy with PUT permission for both the website and the game application.
- D. Create an IAM policy with fine-grained permission for both the website and the game application.
- E. Create an IAM policy with PUT permission for the game application and an IAM policy with GET permission for the website.

Correct Answer: BE

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#### QUESTION 10

You have been tasked with implementing an automated data backup solution for your application servers that run on Amazon EC2 with Amazon EBS volumes. You want to use a distributed data store for your backups to avoid single points of failure and to increase the durability of the data. Daily backups should be retained for 30 days so that you can restore data within an hour.

How can you implement this through a script that a scheduling daemon runs daily on the application servers?

- A. Write the script to call the ec2-create-volume API, tag the Amazon EBS volume with the current date-time group, and copy backup data to a second Amazon EBS volume. Use the ec2-describe-volumes API to enumerate existing backup volumes. Call the ec2-delete-volume API to prune backup volumes that are tagged with a date-time group older than 30 days
- B. Write the script to call the Amazon Glacier upload archive API, and tag the backup archive with the current date-time group. Use the list vaults API to enumerate existing backup archives. Call the delete vault API to prune backup archives that are tagged with a date-time group older than 30 days
- C. Write the script to call the ec2-create-snapshot API, and tag the Amazon EBS snapshot with the current date-time group. Use the ec2-describe-snapshot API to enumerate existing Amazon EBS snapshots. Call the ec2-delete-snapshot API to prune Amazon EBS snapshots that are tagged with a date-time group older than 30 days
- D. Write the script to call the ec2-create-volume API, tag the Amazon EBS volume with the current date-time group, and use the ec2-copy-snapshot API to backup data to the new Amazon EBS volume. Use the ec2-describe-snapshot API to enumerate existing backup volumes. Call the ec2-delete-snapshot API to prune backup Amazon EBS volumes that are tagged with a date-time group older than 30 days

Correct Answer: C

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#### QUESTION 11

It is advised that you watch the Amazon CloudWatch "\_\_\_\_\_" metric (available via the AWS Management Console or

Amazon Cloud Watch APIs) carefully and recreate the Read Replica should it fall behind due to replication errors.

- A. Write Lag
- B. Read Replica
- C. Replica Lag
- D. Single Replica

Correct Answer: C

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#### QUESTION 12

Does Dynamic DB support in-place atomic updates?

- A. It is not defined
- B. No
- C. Yes
- D. It does support in-place non-atomic updates

Correct Answer: C

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#### QUESTION 13

Which Amazon storage do you think is the best for my database-style applications that frequently encounter many random reads and writes across the dataset?

- A. None of these.
- B. Amazon Instance Storage
- C. Any of these
- D. Amazon EBS

Correct Answer: D

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#### QUESTION 14

An online gaming company uses DynamoDB to store user activity logs and is experiencing throttled writes on the company's DynamoDB table. The company is NOT consuming close to the provisioned capacity. The table contains a large number of items and is partitioned on user and sorted by date. The table is 200GB and is currently provisioned at 10K WCU and 20K RCU.

Which two additional pieces of information are required to determine the cause of the throttling? (Choose two.)

- A. The structure of any GSIs that have been defined on the table

- B. CloudWatch data showing consumed and provisioned write capacity when writes are being throttled
- C. Application-level metrics showing the average item size and peak update rates for each attribute
- D. The structure of any LSIs that have been defined on the table
- E. The maximum historical WCU and RCU for the table

Correct Answer: AD

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#### QUESTION 15

A data engineer is running a DWH on a 25-node Redshift cluster of a SaaS service. The data engineer needs to build a dashboard that will be used by customers. Five big customers represent 80% of usage, and there is a long tail of dozens of smaller customers. The data engineer has selected the dashboarding tool.

How should the data engineer make sure that the larger customer workloads do NOT interfere with the smaller customer workloads?

- A. Apply query filters based on customer-id that can NOT be changed by the user and apply distribution keys on customer-id.
- B. Place the largest customers into a single user group with a dedicated query queue and place the rest of the customers into a different query queue.
- C. Push aggregations into an RDS for Aurora instance. Connect the dashboard application to Aurora rather than Redshift for faster queries.
- D. Route the largest customers to a dedicated Redshift cluster. Raise the concurrency of the multi-tenant Redshift cluster to accommodate the remaining customers.

Correct Answer: D

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