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Amazon

Exam Questions SAA-C01

**AWS Certified Solutions
Architect - Associate**

<https://certificationtime.com/>





Question: 1

A Solutions Architect is designing an application that will encrypt all data in an Amazon Redshift cluster. Which action will encrypt the data at rest?

- A. Place the Redshift cluster in a private subnet.
- B. Use the AWS KMS Default Customer master key.
- C. Encrypt the Amazon EBS volumes.
- D. Encrypt the data using SSL/TLS.

Answer: B

Explanation:

https://docs.aws.amazon.com/en_pv/redshift/latest/mgmt/security-server-side-encryption.html

Question: 2

A website experiences unpredictable traffic. During peak traffic times, the database is unable to keep up with the write request. Which AWS service will help decouple the web application from the database?

- A. Amazon SQS
- B. Amazon EFS
- C. Amazon S3
- D. AWS Lambda

Answer: A

Question: 3

A legacy application needs to interact with local storage using iSCSI. A team needs to design a reliable storage solution to provision all new storage on AWS. Which storage solution meets the legacy application requirements?

- A. AWS Snowballstorage for the legacy application until the application can be rearchitected.
- B. AWS Storage Gateway in cached mode for the legacy application storage to write data to Amazon S3.
- C. AWS Storage Gateway in stored mode for the legacy application storage to write data to Amazon S3.
- D. An Amazon S3 volume mounted on the legacy application server locally using the File Gateway service.

Answer: B

Explanation:

<https://docs.aws.amazon.com/storagegateway/latest/userguide/StorageGatewayConcepts.html>

Cached volumes – You store your data in Amazon Simple Storage Service (Amazon S3) and retain a copy of frequently accessed data subsets locally. Cached volumes offer a substantial cost savings on primary storage and minimize the need to scale your storage on-premises. You also retain low-latency access to

your frequently accessed data. Stored volumes – If you need low-latency access to your entire dataset, first configure your on-premises gateway to store all your data locally. Then asynchronously back up point-in-time snapshots of this data to Amazon S3. This configuration provides durable and inexpensive

offsite backups that you can recover to your local data center or Amazon EC2. For example, if you need replacement capacity for disaster recovery, you can recover the backups to Amazon EC2

<https://docs.aws.amazon.com/storagegateway/latest/userguide/WhatIsStorageGateway.html>

Question: 4

A Solutions Architect is designing an architecture for a mobile gaming application. The application is expected to be very popular. The Architect needs to prevent the Amazon RDS MySQL database from becoming a bottleneck due to frequently accessed queries.

Which service or feature should the Architect add to prevent a bottleneck?

- A. Multi-AZ feature on the RDS MySQL Database
- B. ELB Classic Load Balancer in front of the web application tier
- C. Amazon SQS in front of RDS MySQL Database
- D. Amazon ElastiCache in front of the RDS MySQL Database

Answer: D



Explanation:

Elasticache (Redis and Memcached) is an in-memory cache for RDS DB instances and it helps improve performance by diverting frequently accessed read queries to the elasticache.

Question: 5

A company is launching an application that it expects to be very popular. The company needs a database that can scale with the rest of the application. The schema will change frequently. The application cannot afford any downtime for database changes.

Which AWS service allows the company to achieve these objectives?

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. Amazon RDS MySQL
- D. Amazon Aurora

Answer: B

Explanation:

Amazon DynamoDB transactions simplify the developer experience of making coordinated, all-or-nothing changes to multiple items both within and across tables. Transactions provide atomicity, consistency, isolation, and durability (ACID) in DynamoDB, enabling you to maintain data correctness in

your applications easily. Refer pdf -Page 629

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/dynamodb-dg.pdf>

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