



# SAA-C01<sup>Q&As</sup>

AWS Certified Solutions Architect - Associate (SAA-C01)

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### QUESTION 1

A customer is deploying a production portal application on AWS. The database tier has structured data. The company requires a solution that is easily manageable and highly available. How can these requirements be met?

- A. Deploy the database on multiple Amazon EC2 instances backed by Amazon EBS across multiple Availability Zones.
- B. Use Amazon RDS with a multiple Availability Zone option.
- C. Use RDS with a single Available Zone option and schedule periodic database snapshots.
- D. Use Amazon DynamoDB.

Correct Answer: B

Reference: <https://aws.amazon.com/rds/>

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### QUESTION 2

A customer has a legacy application with a large amount of data. The files accessed by the application are approximately 10 GB each, but are rarely accessed. However, when files are accessed, they are retrieved sequentially. The customer

is migrating the application to AWS and would like to use Amazon EC2 and Amazon EBS.

What is the Least expensive EBS volume type for this use case?

- A. Cold HDD (sc1)
- B. Provisioned IOPS SSD (io1)
- C. General Purpose SSD (gp2)
- D. Throughput Optimized HDD (st1)

Correct Answer: D

Throughput Optimized HDD (st1) volumes provide low-cost magnetic storage that defines performance in terms of throughput rather than IOPS. This volume type is a good fit for large, sequential workloads such as Amazon EMR, ETL, data warehouses, and log processing. Bootable st1 volumes are not supported.

Throughput Optimized HDD (st1) volumes, though similar to Cold HDD (sc1) volumes, are designed to support frequently accessed data.

This volume type is optimized for workloads involving large, sequential I/O, and we recommend that customers with workloads performing small, random I/O use gp2. Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSVolumeTypes.html>

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### QUESTION 3

A customer has a 10 GB AWS Direct Connect connection to an AWS region where they have a web application hosted



on Amazon Elastic Computer Cloud (EC2). The application has dependencies on an on-premises mainframe database that uses a BASE (Basic Available. Sort stale Eventual consistency) rather than an ACID (Atomicity. Consistency isolation. Durability) consistency model. The application is exhibiting undesirable behavior because the database is not able to handle the volume of writes. How can you reduce the load on your on-premises database resources in the most cost-effective way?

- A. Use an Amazon Elastic Map Reduce (EMR) S3DistCp as a synchronization mechanism between the on-premises database and a Hadoop cluster on AWS.
- B. Modify the application to write to an Amazon SQS queue and develop a worker process to flush the queue to the on-premises database.
- C. Modify the application to use DynamoDB to feed an EMR cluster which uses a map function to write to the on-premises database.
- D. Provision an RDS read-replica database on AWS to handle the writes and synchronize the two databases using Data Pipeline.

Correct Answer: B

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#### QUESTION 4

A Solutions Architect is designing an elastic application that will have between 10 and 50 Amazon EC2 concurrent instances running, dependent on load. Each instance must mount storage that will read and write to the same 50 GB folder. Which storage type meets the requirements?

- A. Amazon S3
- B. Amazon EFS
- C. Amazon EBS volumes
- D. Amazon EC2 instance store

Correct Answer: B

Reference <https://docs.aws.amazon.com/efs/latest/ug/troubleshooting-efs-mounting.html>

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#### QUESTION 5

To meet compliance standards, a company must have encrypted archival data storage. Data will be accessed infrequently, with lead times well in advance of when archived data must be recovered. The company requires that the storage be secure, durable, and provided at the lowest price per 1TB of data stored.

What type of storage should be used?

- A. Amazon S3
- B. Amazon EBS
- C. Amazon Glacier



D. Amazon EFS

Correct Answer: C

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