



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

AWS Certified Solutions Architect - Associate (SAA-C01)

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### QUESTION 1

A Solutions Architect has a multi-layer application running in Amazon VPC. The application has an ELB Classic Load Balancer as the front end in a public subnet, and an Amazon EC2-based reverse proxy that performs content-based routing to two backend Amazon EC2 instances hosted in a private subnet. The Architect sees tremendous traffic growth and is concerned that the reverse proxy and current backend set up will be insufficient. Which actions should the Architect take to achieve a cost-effective solution that ensures the application automatically scales to meet traffic demand? (Select two.)

- A. Replace the Amazon EC2 reverse proxy with an ELB internal Classic Load Balancer.
- B. Add Auto Scaling to the Amazon EC2 backend fleet.
- C. Add Auto Scaling to the Amazon EC2 reverse proxy layer.
- D. Use t2 burstable instance types for the backend fleet.
- E. Replace both the frontend and reverse proxy layers with an ELB Application Load Balancer.

Correct Answer: AB

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### QUESTION 2

An application stores data in an Amazon RDS PostgreSQL Multi-AZ database instance. The ratio of read requests to write requests is about 2 to 1. Recent increases in traffic are causing very high latency. How can this problem be corrected?

- A. Create a similar RDS PostgreSQL instance and direct all traffic to it.
- B. Use the secondary instance of the Multiple Availability Zone for read traffic only.
- C. Create a read replica and send half of all traffic to it.
- D. Create a read replica and send all read traffic to it.

Correct Answer: D

Reference: <https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>

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### QUESTION 3

A company is deploying a reporting application on Amazon EC2. The application is expected to generate 1,000 documents every hour and each document will be 800 MB. The company is concerned about strong data consistency and file locking, as various applications hosted on other EC2 instances will process the report documents in parallel when they become available.

What storage solution will meet these requirements with the LEAST amount of administrative overhead?

- A. Amazon EFS
- B. Amazon S3



C. Amazon ElastiCache

D. Amazon EBS

Correct Answer: A

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

#### QUESTION 4

A Solutions Architect is designing a ride-sharing application. The application needs consistent and single-digit millisecond latency. In addition, the application must integrate with a highly scalable and fully managed database service to track GPS coordinates and user data for all rides.

Which database service should the Solutions Architect use to meet these performance requirements?

A. Amazon RDS

B. Amazon Redshift

C. Amazon DynamoDB

D. Amazon Aurora

Correct Answer: C

Amazon DynamoDB is a key-value and document database that delivers single-digit millisecond performance at any scale. It's a fully managed, multiregion, multimaster, durable database with built-in security, backup and restore, and in-memory caching for internet-scale applications. DynamoDB can handle more than 10 trillion requests per day and can support peaks of more than 20 million requests per second.

Many of the world's fastest growing businesses such as Lyft, Airbnb, and Redfin as well as enterprises such as Samsung, Toyota, and Capital One depend on the scale and performance of DynamoDB to support their mission-critical workloads.

Hundreds of thousands of AWS customers have chosen DynamoDB as their key-value and document database for mobile, web, gaming, ad tech, IoT, and other applications that need low-latency data access at any scale. Create a new table for your application and let DynamoDB handle the rest.

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

#### QUESTION 5

A Solutions Architect needs to allow developers to have SSH connectivity to web servers. The requirements are as follows:

Limit access to users origination from the corporate network.

Web servers cannot have SSH access directly from the Internet.

Web servers reside in a private subnet.

Which combination of steps must the Architect complete to meet these requirements? (Choose two.)



- A. Create a bastion host that authenticates users against the corporate directory.
- B. Create a bastion host with security group rules that only allow traffic from the corporate network.
- C. Attach an IAM role to the bastion host with relevant permissions.
- D. Configure the web servers' security group to allow SSH traffic from a bastion host.
- E. Deny all SSH traffic from the corporate network in the inbound network ACL.

Correct Answer: AC

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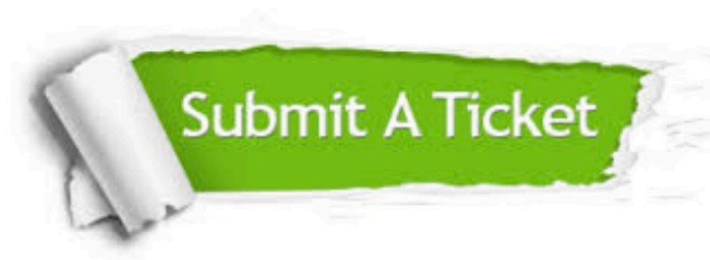
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