

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

AWS Certified Solutions Architect - Associate (SAA-C01)

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#### **QUESTION 1**

A company has a Node.js application running on Amazon EC2 that currently retrieves data for customers from a DynamoDB table. The company is seeing many repeat queries for the same items, and the number of queries is continuing to increase as the application gains popularity.

What solution will reduce the number of read capacity units (RCUs) required while minimizing the amount of refactoring that must be done to the application?

- A. Use Amazon ElastiCache to provide a caching layer
- B. Use a Lambda function to make concurrent requests for caching
- C. Use Amazon DynamoDB Accelerator (DAX) to provide a caching layer
- D. Obtain Reserved Capacity for Amazon DynamoDB to manage the increased number of queries

Correct Answer: C

#### **QUESTION 2**

A customer has a service based out of Oregon, U.S. and Paris, France. The application is storing data in an S3 bucket located in Oregon, and that data is updated frequently. The Paris office is experiencing slow response times when retrieving objects.

What should a Solutions Architect do to resolve the slow response times for the Paris office?

- A. Set up an S3 bucket based in Paris, and enable cross-region replication from the Oregon bucket to the Paris bucket.
- B. Create an Application Load Balancer that load balances data retrieval between the Oregon S3 bucket and a new Paris S3 bucket.
- C. Create an Amazon CloudFront distribution with the bucket located in Oregon as the origin and set the Maximum Time to Live (TTL) for cache behavior to 0.
- D. Set up an S3 bucket based in Paris, and enable a lifecycle management rule to transition data from the Oregon bucket to the Paris bucket.

Correct Answer: A

#### **QUESTION 3**

A team has developed a new web application in an AWS Region that has three Availability Zones: AZ-a, AZ-b, and AZ-c. This application must be fault tolerant and needs at least six Amazon EC2 instances running at all times. The application must tolerate the loss of connectivity to any single Availability Zone so that the application can continue to run.

Which configurations will meet these requirements? (Select TWO.)



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- A. AZ-a with six EC2 instances, AZ-b with six EC2 instances, and AZ-c with no EC2 instances.
- B. AZ-a with four EC2 instances, AZ-b with two EC2 instances, and AZ-c with two EC2 instances.
- C. AZ-a with two EC2 instances, AZ-b with two EC2 instances, and AZ-c with two EC2 instances.
- D. AZ-a with three EC2 instances, AZ-b with three EC2 instances, and AZ-c with no EC2 instances.
- E. AZ-a with three EC2 instances, AZ-b with three EC2 instances, and AZ-c with three EC2 instances.

Correct Answer: BE

#### **QUESTION 4**

You\\'ve been hired to enhance the overall security posture for a very large e-commerce site. They have a well architected multi-tier application running in a VPC that uses ELBs in front of both the web and the app tier with static assets served

directly from S3 They are using a combination of RDS and DynamoOB for their dynamic data and then archiving nightly into S3 for further processing with EMR They are concerned because they found questionable log entries and suspect

someone is attempting to gain unauthorized access.

Which approach provides a cost effective scalable mitigation to this kind of attack?

A. Recommend that they lease space at a DirectConnect partner location and establish a 1G DirectConnect connection to theirvPC they would then establish Internet connectivity into their space, filter the traffic in hardware Web Application Firewall (WAF). And then pass the traffic through the DirectConnect connection into their application running in their VPC,

- B. Add previously identified hostile source IPs as an explicit INBOUND DENY NACL to the web tier subnet.
- C. Add a WAF tier by creating a new ELB and an AutoScalmg group of EC2 Instances running a host- based WAF They would redirect Route 53 to resolve to the new WAF tier ELB The WAF tier would thier pass the traffic to the current web tier The web tier Security Groups would be updated to only allow traffic from the WAF tier Security Group
- D. Remove all but TLS 1 2 from the web tier ELB and enable Advanced Protocol Filtering This will enable the ELB itself to perform WAF functionality.

Correct Answer: C

#### **QUESTION 5**

A company processed 10 TB of raw data to generate quarterly reports. Although it is unlikely to be used again, the raw data needs to be preserved for compliance and auditing purposes.

What is the MOST cost-effective way to store the data in AWS?

- A. Amazon EBS Cold HDD (sc1)
- B. Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA)
- C. Amazon S3 Standard-Infrequent Access (S3 Standard-IA)



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D. Amazon Glacier

Correct Answer: C

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