

# SAA-C02<sup>Q&As</sup>

AWS Certified Solutions Architect - Associate (SAA-C02)

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### QUESTION 1

Management has decided to deploy all AWS VPCs with IPv6 enabled After some time a solutions architect tries to launch a new instance and receives an error stating that there is not enough IP address space available in the subnet What should the solutions architect do to fix this?

- A. Check to make sure that only IPv6 was used during the VPC creation.
- B. Create a new IPv4 subnet with a larger range, and then launch the instance
- C. Create a new IPv6-only subnet with a larger range, and then launch the instance
- D. Disable the IPv4 subnet and migrate all instances to IPv6 only Once that is complete launch the instance

Correct Answer: C

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### QUESTION 2

A company needs to run its external website on Amazon EC2 instances and on-premises virtualized servers The AWS environment has a 1 GB AWS Direct Connect connection to the data center. The application has IP addresses that will not change. The on-premises and AWS servers are able to restart themselves while maintaining the same IP address if a failure occurs Some website users have to add their vendors to an allow list, so the solution must have a fixed IP address The company needs a solution with the lowest operational overhead to handle this split traffic.

What should a solutions architect do to meet these requirements?

- A. Deploy an Amazon Route 53 Resolver with rules pointing to the on-premises and AWS IP addresses
- B. Deploy a Network Load Balancer on AWS. Create target groups for the on-premises and AWS IP addresses.
- C. Deploy an Application Load Balancer on AWS Register the on-premises and AWS IP addresses with the target group.
- D. Deploy Amazon API Gateway to direct traffic to the on-premises and AWS IP addresses based on the header of the request.

Correct Answer: B

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### QUESTION 3

A company wants to deploy an additional Amazon Aurora MySQL DB cluster for development purposes. The cluster will be used several times a week for a few minutes upon to debug production query issues. The company wants to keep overhead low for this resource. Which solution meets the company's requirements MOST cost-effectively?

- A. Purchas a Reserved Instance for the DB instances.
- B. Run the DB instances on Aurora Serverless
- C. Create a stop/start schedule for the DB instances.

D. Create an AWS Lambda function to stop DB instances if there are no active connections

Correct Answer: D

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#### QUESTION 4

A gaming company has multiple Amazon EC2 instances in a single Availability Zone for its multiplayer game that communicates with users on Layer 4. The chief technology officer (CTO) wants to make the architecture highly available and cost-effective. What should a solutions architect do to meet these requirements? (Select TWO.)

- A. Increase the number of EC2 instances
- B. Decrease the number of EC2 Instances
- C. Configure a Network Load Balancer in front of the EC2 instances.
- D. Configure an Application Load Balancer In front of the EC2 instances
- E. Configure an Auto Scaling group to add or remove Instances in multiple Availability Zones automatically

Correct Answer: CE

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#### QUESTION 5

A company has a website deployed on AWS. The database backend is hosted on Amazon RDS for MySQL with a primary instance and five read replicas to support scaling needs. The read replicas should lag no more than 1 second behind the primary instance to support the user experience. As traffic on the website continues to increase, the replicas are falling further behind during periods of peak load, resulting in complaints from users when searches yield inconsistent results. A solutions architect needs to reduce the replication lag as much as possible, with minimal changes to the application code or operational requirements. Which solution meets these requirements?

- A. Migrate the database to Amazon Aurora MySQL. Replace the MySQL read replicas with Aurora Replicas and enable Aurora Auto Scaling.
- B. Deploy an Amazon ElastiCache for Redis cluster in front of the database. Modify the website to check the cache before querying the database read endpoints.
- C. Migrate the database from Amazon RDS to MySQL running on Amazon EC2 compute instances. Choose very large compute optimized instances for all replica nodes.
- D. Migrate the database to Amazon DynamoDB. Initially provision a large number of read capacity units (RCUs) to support the required throughput with on-demand capacity scaling enabled.

Correct Answer: B