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Vendor:Amazon

Exam Code:SAA-C02

Exam Name:AWS Certified Solutions Architect -
Associate (SAA-C02)

Version:Demo

QUESTION 1

Application developers have noticed that a production application is very slow when business reporting users run large production reports against the Amazon RDS instance backing the application. The CPU and memory utilization metrics for

the RDS instance do not exceed 60% while the reporting queries are running. The business reporting users must be able to generate reports without affecting the application's performance.

Which action will accomplish this?

- A. Increase the size of the RDS instance
- B. Create a read replica and connect the application to it.
- C. Enable multiple Availability Zones on the RDS instance
- D. Create a read replication and connect the business reports to it.

Correct Answer: D

QUESTION 2

A company relies on an application that needs at least 4 Amazon EC2 instances during regular traffic and must scale up to 12 EC2 instances during peak loads. The application is critical to the business and must be highly available. Which solution will meet these requirements?

- A. Deploy the EC2 instances in an Auto Scaling group. Set the minimum to 4 and the maximum to 12, with 2 in Availability Zone A and 2 in Availability Zone B.
- B. Deploy the EC2 instances in an Auto Scaling group. Set the minimum to 4 and the maximum to 12, with all 4 in Availability Zone A.
- C. Deploy the EC2 instances in an Auto Scaling group. Set the minimum to 8 and the maximum to 12, with 4 in Availability Zone A and 4 in Availability Zone B.
- D. Deploy the EC2 instances in an Auto Scaling group. Set the minimum to 8 and the maximum to 12, with all 8 in Availability Zone A.

Correct Answer: B

QUESTION 3

A company has on-premises servers running a relational database. The current database serves high read traffic for users in different locations. The company wants to migrate to AWS with the least amount of effort. The database solution should support disaster recovery and not affect the company's current traffic flow.

Which solution meets these requirements?

- A. Use a database in Amazon RDS with Multi-AZ and at least one read replica.

- B. Use a database in Amazon RDS with Multi-AZ and at least one standby replica
- C. Use databases hosted on multiple Amazon EC2 instances in different AWS Regions
- D. Use databases hosted on Amazon EC2 instances behind an Application Load Balancer in different Availability Zones

Correct Answer: A

QUESTION 4

An application runs on Amazon EC2 instances in private subnets. The application needs to access an Amazon DynamoDB table. What is the MOST secure way to access the table while ensuring that the traffic does not leave the AWS network?

- A. Use a VPC endpoint for DynamoDB.
- B. Use a NAT gateway in a public subnet.
- C. Use a NAT instance in a private subnet.
- D. Use the internet gateway attached to the VPC.

Correct Answer: A

QUESTION 5

A company has an event-driven application that invokes AWS Lambda functions up to 800 times each minute with varying runtimes. The Lambda functions access data that is stored in an Amazon Aurora MySQL OB cluster. The company is noticing connection timeouts as user activity increases. The database shows no signs of being overloaded. CPU, memory, and disk access metrics are all low.

Which solution will resolve this issue with the LEAST operational overhead?

- A. Adjust the size of the Aurora MySQL nodes to handle more connections. Configure retry logic in the Lambda functions for attempts to connect to the database.
- B. Set up Amazon ElastiCache for Redis to cache commonly read items from the database. Configure the Lambda functions to connect to ElastiCache for reads.
- C. Add an Aurora Replica as a reader node. Configure the Lambda functions to connect to the reader endpoint of the OB cluster rather than to the writer endpoint.
- D. Use Amazon ROS Proxy to create a proxy. Set the DB cluster as the target database. Configure the Lambda functions to connect to the proxy rather than to the DB cluster.

Correct Answer: D

QUESTION 6

A company is building a RESTful serverless web application on AWS by using Amazon API Gateway and AWS Lambda.

The users of this web application will be geographically distributed, and the company wants to reduce the latency of API requests to these users.

Which type of endpoint should a solutions architect use to meet these requirements?

- A. Private endpoint
- B. Regional endpoint
- C. Interface VPC endpoint
- D. Edge-optimized endpoint

Correct Answer: A

QUESTION 7

A doctor's office is moving all of its patient data to the AWS Cloud. The office needs to retain all the data indefinitely, but the data is rarely accessed after a year. The data must be immediately available during the first year. However, to minimize cost, the office is willing to wait a day for data that is more than 1 year old to become available.

Which combination of actions should a solutions architect take to meet these requirements MOST cost-effectively? (Select TWO)

- A. Create an Amazon S3 Lifecycle transition rule to move the data to S3 Glacier after a year.
- B. Create an Amazon S3 Lifecycle transition rule to move the data to S3 Glacier Deep Archive after a year.
- C. Create an Amazon S3 bucket for the data. Store data in the S3 bucket by using the S3 Glacier storage class.
- D. Create an Amazon S3 bucket for the data. Store data in the bucket by using the S3 Standard storage class.
- E. Create an Amazon S3 bucket for the data. Store data in the bucket by using the S3 Intelligent-Tiering storage class.

Correct Answer: AD

QUESTION 8

A company runs an application on Amazon EC2 Instances. The application is deployed in private subnets in three Availability Zones of the us-east-1 Region. The instances must be able to connect to the internet to download files. The company wants a design that is highly available across the Region. Which solution should be implemented to ensure that there are no disruptions to Internet connectivity?

- A. Deploy a NAT Instance in a private subnet of each Availability Zone.
- B. Deploy a NAT gateway in a public subnet of each Availability Zone.
- C. Deploy a transit gateway in a private subnet of each Availability Zone.
- D. Deploy an internet gateway in a public subnet of each Availability Zone.

Correct Answer: B

QUESTION 9

A company is creating a prototype of an ecommerce website on AWS. The website consists of an Application Load Balancer, an Auto Scaling group of Amazon EC2 instances for web servers, and an Amazon RDS for MySQL DB instance that runs with the Single-AZ configuration.

The website is slow to respond during searches of the product catalog. The product catalog is a group of tables in the MySQL database that the company does not update frequently. A solutions architect has determined that the CPU utilization on the DB instance is high when product catalog searches occur.

What should the solutions architect recommend to improve the performance of the website during searches of the product catalog?

- A. Migrate the product catalog to an Amazon Redshift database. Use the COPY command to load the product catalog tables.
- B. Implement an Amazon ElastiCache for Redis cluster to cache the product catalog. Use lazy loading to populate the cache.
- C. Add an additional scaling policy to the Auto Scaling group to launch additional EC2 instances when database response is slow.
- D. Turn on the Multi-AZ configuration for the DB instance. Configure the EC2 instances to throttle the product catalog queries that are sent to the database.

Correct Answer: A

Reference: https://docs.aws.amazon.com/redshift/latest/dg/r_COPY.html

QUESTION 10

A company has a website hosted on AWS. The website is behind an Application Load Balancer (ALB) that is configured to handle HTTP and HTTPS separately. The company wants to forward all requests to the website so that the requests will use HTTPS.

What should a solutions architect do to meet this requirement?

- A. Update the ALB's network ACL to accept only HTTPS traffic.
- B. Create a rule that replaces the HTTP in the URL with HTTPS.
- C. Create a listener rule on the ALB to redirect HTTP traffic to HTTPS.
- D. Replace the ALB with a Network Load Balancer configured to use Server Name Indication (SNI).

Correct Answer: C

QUESTION 11

A company is working with an external vendor that requires write access to the company's Amazon Simple Queue Service (Amazon SQS) queue. The vendor has its own AWS account. What should a solutions architect do to

implement least privilege access?

- A. Update the permission policy on the SQS queue to give write access to the vendor's AWS account.
- B. Create an IAM user with write access to the SQS queue and share the credentials for the IAM user.
- C. Update AWS Resource Access Manager to provide write access to the SQS queue from the vendor's AWS account.
- D. Create a cross-account role with access to all SQS queues and use the vendor's AWS account in the trust document for the role

Correct Answer: D

QUESTION 12

A company requires that all versions of objects in its Amazon S3 bucket be retained Current object versions will be frequently accessed during the first 30 days, after which they will be rarely accessed and must be retrievable within 5 minutes Previous object versions need to be kept forever, will be rarely accessed, and can be retrieved within 1 week. All storage solutions must be highly available and highly durable.

What should a solutions architect recommend to meet these requirements in the MOST cost- effective manner?

- A. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 Glacier after 30 days and moves previous object versions to S3 Glacier after 1 day.
- B. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 Glacier after 30 days and moves previous object versions to S3 Glacier Deep Archive after 1 day
- C. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 Standard-infrequent Access (S3 Standard-IA) after 30 days and moves previous object versions to S3 Glacier Deep Archive after 1 day
- D. Create an S3 lifecycle policy for the bucket that moves current object versions from S3 Standard storage to S3 One Zone-Infrequent Access (S3 One Zone-IA) after 30 days and moves previous object versions to S3 Glacier Deep Archive after 1 day

Correct Answer: B