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AWS Certified Solutions Architect - Associate (SAA-C02)

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QUESTION 1

A company has multiple applications that use Amazon RDS for MySQL as its database. The company recently discovered that a new custom reporting application has increased the number of queries on the database. This is slowing down performance.

How should a solutions architect resolve this issue with the LEAST amount of application changes?

- A. Add a secondary DB instance using Multi-AZ
- B. Set up a read replica and Multi-AZ on Amazon RDS.
- C. Set up a standby replica and Multi-AZ on Amazon RDS
- D. Use caching on Amazon RDS to improve the overall performance

Correct Answer: D

QUESTION 2

A company is hosting an election reporting website on AWS for users around the world. The website uses Amazon EC2 instances for the web and application tiers in an Auto Scaling group with Application Load Balancers. The database tier uses an Amazon RDS for MySQL database. The website is updated with election results once an hour and has historically observed hundreds of users accessing the reports. The company is expecting a significant increase in demand because of upcoming elections in different countries. A solutions architect must improve the website's ability to handle additional demand while minimizing the need for additional EC2 instances.

Which solution will meet these requirements?

- A. Launch an Amazon ElastiCache cluster to cache common database queries.
- B. Launch an Amazon CloudFront web distribution to cache commonly requested website content.
- C. Enable disk-based caching on the EC2 instances to cache commonly requested website content.
- D. Deploy a reverse proxy into the design using an EC2 instance with caching enabled for commonly requested website content.

Correct Answer: B

QUESTION 3

A company has an on-premises volume backup solution that has reached its end of life. The company wants to use AWS as part of a new backup solution and wants to maintain local access to the data while it is backed up on AWS. The

company wants to ensure that the data backed up on AWS is automatically and securely transferred.

Which solution meets these requirements?

- A. Use AWS Snowball to migrate data out of the on-premises solution to Amazon S3. Configure on-premises systems

to mount the Snowball S3 endpoint to provide Weal access to the data

B. Use AWS Snowball Edge to migrate data out of the on-premises solution to Amazon S3. Use the Snowball Edge file interface to provide on-premises system with local access to the data.

C. Use AWS Storage Gateway and configure a cached volume gateway Run the Storage Gateway software appliance on premises and configure a percentage of data to cache locally. Mount the gateway storage volumes to provide local access to the data.

D. Use AWS Storage Gateway and configure a stored volume gateway. Run the Storage Gateway software appliance on premises and map the gateway storage volumes lo on-premises storage.Mount the gateway storage volumes lo provide local access to the data.

Correct Answer: C

QUESTION 4

A company manages and runs a critical data management application in containers that are hosted on Amazon Elastic Container Service (Amazon ECS). The application has endpoints that are exposed through Application Load Balancers (ALBs). The application uses an Amazon Elastic File System (Amazon EFS) file system mount for persistent data storage. The company has configured Amazon ECS to use a minimal IAM instance role.

Which combination of actions should a solutions architect take to improve the overall security posture of the application? (Select TWO.)

A. Decompose the Amazon ECS IAM instance role. Use only ECS task roles.

B. Enable EFS encryption in transit to protect data that is being written to Amazon EFS.

C. Use AWS Config to define patch management policies on the container instances.

D. Use Amazon Macie integration with Amazon EFS to monitor and protect sensitive information in the file system.

E. Use Amazon GuardDuty to authenticate data access between the ALBs and the container instances.

Correct Answer: CD

QUESTION 5

A company is hosting a three-tier ecommerce application in the AWS Cloud. The company hosts the website on Amazon S3 and integrates the website with an API that handles sales requests. The company hosts the API on three Amazon

EC2 instances behind an Application Load Balancer (ALB). The API consists of static and dynamic front-end content along with backend workers that process sales requests asynchronously.

The company is expecting a significant and sudden increase in the number of sales requests during events for the launch of new products

What should a solutions architect recommend to ensure that all the requests are processed successfully?

A. Add an Amazon CloudFront distribution for the dynamic content. Increase the number of EC2 instances to handle the increase in traffic.

B. Add an Amazon CloudFront distribution for the static content. Place the EC2 instances in an Auto Scaling group to launch new instances based on network traffic.

C. Add an Amazon CloudFront distribution for the dynamic content. Add an Amazon ElastiCache instance in front of the ALB to reduce traffic for the API to handle.

D. Add an Amazon CloudFront distribution for the static content. Add an Amazon Simple Queue Service (Amazon SQS) queue to receive requests from the website for later processing by the EC2 instances.

Correct Answer: D

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