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**QUESTION 1**

A university is running an internal web application on AWS that students can access from the university network to check their exam results. The web application runs on Amazon EC2 instances and pulls results from an Amazon DynamoDB table. Auto Scaling is currently configured to add a new web server when CPU is greater than 80% for 5 minutes. DynamoDB is configured to increase both read and write capacity units by five when utilization is greater than 80%. Exam results are released at 9:00 a.m. each Monday, and 80% of students attempt to access their unique result within the first 30 minutes. Despite Auto Scaling being enabled, students are complaining of slow response times and errors when they view the site. There are no performance complaints after 9:30 a.m. on Monday.

Which recommendation should a Solutions Architect make to improve performance in a cost-effective manner?

- A. Scale out the EC2 instances to ensure that the environment scales up and down based on the highest load.
- B. Implement Amazon DynamoDB Accelerator to improve database performance and remove the need to scale the read/write units.
- C. Use a scheduled job to scale out EC2 before 9:00 a.m. on Monday and to scale down after 9:30 a.m.
- D. Use Amazon CloudFront to cache web request and reduce the load on EC2 and DynamoDB.

Correct Answer: D

QUESTION 2

A company needs to capture all client connection information from its Application Load Balancer every five minutes. This data will be used to analyze traffic patterns and troubleshoot the application. How can a Solutions Architect meet this requirement?

- A. Enable AWS CloudTrail for the Application Load Balancer.
- B. Enable Access Logs on the Application Load Balancer.
- C. Install CloudWatch Agent on the Application Load Balancer.
- D. Enable CloudWatch metrics on the Application Load Balancer.

Correct Answer: B

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.)

- 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

A company is storing application data in Amazon S3 buckets across multiple AWS regions. Company policy requires that encryption keys be generated at the company headquarters, but the encryption keys may be stored in AWS after generation. The Solutions Architect plans to configure cross-region replication.

Which solution will encrypt the data whole requiring the LEAST amount of operational overhead?

- A. Configure the applications to write to an S3 bucket using client-side encryption
- B. Configure S3 buckets to encrypt using AES-256
- C. Configure S3 object encryption using AWS CLI with Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS)
- D. Configure S3 buckets to use Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS) with imported key material in both regions

Correct Answer: C

QUESTION 5

A Solutions Architect is designing an application in AWS. The Architect must not expose the application or database tier over the Internet for security reasons. The application must be low-cost and have a scalable front end. The databases and application tier must have only one-way Internet access to download software and patch updates.

Which solution helps to meet these requirements?

- A. Use a NAT Gateway as the front end for the application tier and to enable the private resources to have Internet access.
- B. Use an Amazon EC2-based proxy server as the front end for the application tier, and a NAT Gateway to allow Internet access for private resources.
- C. Use an ELB Classic Load Balancer as the front end for the application tier, and an Amazon EC2 proxy server to allow Internet access for private resources.
- D. Use an ELB Classic Load Balancer as the front end for the application tier, and a NAT Gateway to allow Internet access for private resources.

Correct Answer: D



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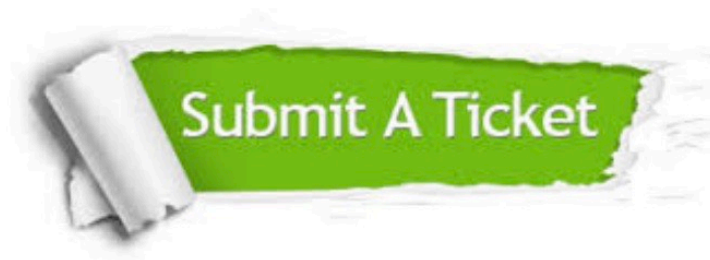
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