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**QUESTION 1**

A company is launching a new application deployed on an Amazon Elastic Container Service (Amazon ECS) cluster and is using the Fargate launch type for ECS tasks. The company is monitoring CPU and memory usage because it is expecting high traffic to the application upon its launch. However, the company wants to reduce costs when utilization decreases.

What should a solutions architect recommend?

- A. Use Amazon EC2 Auto Scaling to scale at certain periods based on previous traffic patterns.
- B. Use an AWS Lambda function to scale Amazon ECS based on metric breaches that trigger an Amazon CloudWatch alarm.
- C. Use Amazon EC2 Auto Scaling with simple scaling policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm.
- D. Use AWS Application Auto Scaling with target tracking policies to scale when ECS metric breaches trigger an Amazon CloudWatch alarm.

Correct Answer: C

QUESTION 2

A solutions architect is reviewing the cost of a company's scheduled nightly maintenance. The solutions architect notices that three Amazon EC2 instances are being run to perform nine scripted tasks that take less than 5 minutes each to complete. The scripts are all written in Python. Which action should the company take to optimize costs of the nightly maintenance?

- A. Consolidate the scripts from the three EC2 instances to run on one EC2 instance.
- B. Convert the scripts to AWS Lambda functions and schedule them with Amazon EventBridge (Amazon CloudWatch Events).
- C. Purchase a Compute Savings Plan for the running EC2 instances.
- D. Create a Spot Fleet to replace the running EC2 instances for executing the scripts.

Correct Answer: B

QUESTION 3

A company has developed a new video game as a web application. The application is in a three-tier architecture in a VPC with Amazon RDS for MySQL in the database layer. Several players will compete concurrently online. The game's developers want to display a top-10 scoreboard in near-real time and offer the ability to stop and restore the game while preserving the current scores. What should a solutions architect do to meet these requirements?

- A. Set up an Amazon ElastiCache for Memcached cluster to cache the scores for the web application to display



- B. Set up an Amazon ElastiCache for Redis cluster to compute and cache the scores for the web application to display.
- C. Place an Amazon CloudFront distribution in front of the web application to cache the scoreboard in a section of the application.
- D. Create a read replica on Amazon RDS for MySQL to run queries to compute the scoreboard and serve the read traffic to the web application.

Correct Answer: D

QUESTION 4

A development team needs to host a website that will be accessed by other teams. The website contents consist of HTML, CSS, client side JavaScript, and images. Which method is the MOST cost-effective for hosting the website?

- A. Containerize the website and host it in AWS Fargate
- B. Create an Amazon S3 bucket and host the website there.
- C. Deploy a web server on an Amazon EC2 instance to host the website.
- D. Configure an Application Load Balancer with an AWS Lambda target that uses the Express.js framework

Correct Answer: B

QUESTION 5

A company uses an application to present metrics from sporting events to the public. The application must scale quickly during live events and must store these metrics for long-term reporting purposes. The company's architecture includes the following:

1.

Amazon EC2 instances that run in an Auto Scaling group in private subnets

2.

A network Load Balancer That runs in public subnets

3.

A MongoDB database cluster that runs across multiple EC2 instances

A solutions architect must implement a solution that minimizes operational overhead. The solution also must be able to scale automatically. What should the solutions architect set up to meet these requirements?

- A. An Amazon DynamoDB database
- B. An Amazon RDS for MySQL D6 instance
- C. EC2 instances that run MySQL
- D. Amazon Redshift



Correct Answer: A

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