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QUESTION 1

A DevOps Engineer is working with an application deployed to 12 Amazon EC2 instances across 3 Availability Zones. New instances can be started from an AMI image. On a typical day, each EC2 instance has 30% utilization during business hours and 10% utilization after business hours. The CPU utilization has an immediate spike in the first few minutes of business hours. Other increases in CPU utilization rise gradually.

The Engineer has been asked to reduce costs while retaining the same or higher reliability. Which solution meets these requirements?

- A. Create two Amazon CloudWatch Events rules with schedules before and after business hours begin and end. Create two AWS Lambda functions, one invoked by each rule. The first function should stop nine instances after business hours end, the second function should restart the nine instances before the business day begins.
- B. Create an Amazon EC2 Auto Scaling group using the AMI image, with a scaling action based on the Auto Scaling group's CPU Utilization average with a target of 75%. Create a scheduled action for the group to adjust the minimum number of instances to three after business hours end and reset to six before business hours begin.
- C. Create two Amazon CloudWatch Events rules with schedules before and after business hours begin and end. Create an AWS CloudFormation stack, which creates an EC2 Auto Scaling group, with a parameter for the number of instances. Invoke the stack from each rule, passing a parameter value of three in the morning, and six in the evening.
- D. Create an EC2 Auto Scaling group using the AMI image, with a scaling action based on the Auto Scaling group's CPU Utilization average with a target of 75%. Create a scheduled action to terminate nine instances each evening after the close of business.

Correct Answer: B

QUESTION 2

A company is hosting a web application in an AWS Region. For disaster recovery purposes, a second region is being used as a standby. Disaster recovery requirements state that session data must be replicated between regions in near-real

time and 1% of requests should route to the secondary region to continuously verify system functionality. Additionally, if there is a disruption in service in the main region, traffic should be automatically routed to the secondary region, and the

secondary region must be able to scale up to handle all traffic.

How should a DevOps Engineer meet these requirements?

- A. In both regions, deploy the application on AWS Elastic Beanstalk and use Amazon DynamoDB global tables for session data. Use an Amazon Route 53 weighted routing policy with health checks to distribute the traffic across the regions.
- B. In both regions, launch the application in Auto Scaling groups and use DynamoDB for session data. Use a Route 53 failover routing policy with health checks to distribute the traffic across the regions.
- C. In both regions, deploy the application in AWS Lambda, exposed by Amazon API Gateway, and use Amazon RDS PostgreSQL with cross-region replication for session data. Deploy the web application with client-side logic to call the API Gateway directly.



D. In both regions, launch the application in Auto Scaling groups and use DynamoDB global tables for session data. Enable an Amazon CloudFront weighted distribution across regions. Point the Amazon Route 53 DNS record at the CloudFront distribution.

Correct Answer: A

QUESTION 3

Your company has developed a web application and is hosting it in an Amazon S3 bucket configured for static website hosting. The application is using the AWS SDK for JavaScript in the browser to access data stored in an Amazon

DynamoDB table.

How can you ensure that API keys for access to your data in DynamoDB are kept secure?

- A. Create an Amazon S3 role in IAM with access to the specific DynamoDB tables, and assign it to the bucket hosting your website.
- B. Configure S3 bucket tags with your AWS access keys for your bucket hosting your website so that the application can query them for access.
- C. Configure a web identity federation role within IAM to enable access to the correct DynamoDB resources and retrieve temporary credentials.
- D. Store AWS keys in global variables within your application and configure the application to use these credentials when making requests.

Correct Answer: C

QUESTION 4

A company used AWS CloudFormation to deploy a three-tier web application that stores data in an Amazon RDS MySQL Multi-AZ DB instance. A DevOps Engineer must upgrade the RDS instance to the latest major version of MySQL while incurring minimal downtime. How should the Engineer upgrade the instance while minimizing downtime?

- A. Update the EngineVersion property of the AWS::RDS::DBInstance resource type in the CloudFormation template to the latest desired version. Launch a second stack and make the new RDS instance a read replica.
- B. Update the DBEngineVersion property of the AWS::RDS::DBInstance resource type in the CloudFormation template to the latest desired version. Perform an Update Stack operation. Create a new RDS Read Replicas resource with the same properties as the instance to be upgraded. Perform a second Update Stack operation.
- C. Update the DBEngineVersion property of the AWS::RDS::DBInstance resource type in the CloudFormation template to the latest desired version. Create a new RDS Read Replicas resource with the same properties as the instance to be upgraded. Perform an Update Stack operation.
- D. Update the EngineVersion property of the AWS::RDS::DBInstance resource type in the CloudFormation template to the latest version, and perform an Update Stack operation.

Correct Answer: A



QUESTION 5

A software company wants to automate the build process for a project where the code is stored in GitHub. When the repository is updated, source code should be compiled, tested, and pushed to Amazon S3.

Which combination of steps would address these requirements? (Choose three.)

- A. Add a buildspec.yml file to the source code with build instructions.
- B. Configure a GitHub webhook to trigger a build every time a code change is pushed to the repository.
- C. Create an AWS CodeBuild project with GitHub as the source repository.
- D. Create an AWS CodeDeploy application with the Amazon EC2/On-Premises compute platform.
- E. Create an AWS OpsWorks deployment with the install dependencies command.
- F. Provision an Amazon EC2 instance to perform the build.

Correct Answer: ABC

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