DOP-C01 Q&As

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QUESTION 1

A Development team is working on a serverless application in AWS. To quickly identify and remediate potential production issues, the team decides to roll out changes to a small number of users as a test before the full release. The DevOps Engineer must develop a solution to minimize downtime and impact. Which of the following solutions should be used to meet the requirements? (Choose two.)

A. Create an Application Load Balancer with two target groups. Set up the Application Load Balancer for Amazon API Gateway private integration. Associate one target group to the current version and the other target group to the new version. Configure API Gateway to route 10% of incoming traffic to the new version. As the new version becomes stable, configure API Gateway to send all traffic to the new version and detach the old version from the load balancer.

B. Create an alias for an AWS Lambda function pointing to both the current and new versions. Configure the alias to route 10% of incoming traffic to the new version. As the new version is considered stable, update the alias to route all traffic to the new version.

C. Create a failover record set in AWS Route 53 pointing to the AWS Lambda endpoints for the old and new versions. Configure Route 53 to route 10% of incoming traffic to the new version. As the new version becomes stable, update the DNS record to route all traffic to the new version.

D. Create an ELB Network Load Balancer with two target groups. Set up the Network Load Balancer for Amazon API Gateway private integration Associate one target group with the current version and the other target group with the new version. Configure the load balancer to route 10% of incoming traffic to the new version. As the new version becomes stable, detach the old version from the load balancer.

E. In Amazon API Gateway, create a canary release deployment by adding canary settings to the stage of a regular deployment. Configure API Gateway to route 10% of the incoming traffic to the canary release. As the canary release is considered stable, promote it to a production release

Correct Answer: BE

QUESTION 2

You run accounting software in the AWS cloud. This software needs to be online continuously during the day every day of the week, and has a very static requirement for compute resources. You also have other, unrelated batch jobs that

need to run once per day at any time of your choosing.

How should you minimize cost?

A. Purchase a Heavy Utilization Reserved Instance to run the accounting software. Turn it off after hours. Run the batch jobs with the same instance class, so the Reserved Instance credits are also applied to the batch jobs.

B. Purchase a Medium Utilization Reserved Instance to run the accounting software. Turn it off after hours. Run the batch jobs with the same instance class, so the Reserved Instance credits are also applied to the batch jobs.

C. Purchase a Light Utilization Reserved Instance to run the accounting software. Turn it off after hours. Run the batch jobs with the same instance class, so the Reserved Instance credits are also applied to the batch jobs.

D. Purchase a Full Utilization Reserved Instance to run the accounting software. Turn it off after hours. Run the batch jobs with the same instance class, so the Reserved Instance credits are also applied to the batch jobs.

Correct Answer: A

Because the instance will always be online during the day, in a predictable manner, and there are a sequence of batch jobs to perform at any time, we should run the batch jobs when the account software is off. We can achieve Heavy Utilization by alternating these times, so we should purchase the reservation as such, as this represents the lowest cost. There is no such thing a "Full" level utilization purchases on EC2. Reference: https://d0.awsstatic.com/whitepapers/Cost_Optimization_with_AWS.pdf

QUESTION 3

An ecommerce company is running an application on AWS. The company wants to create a standby disaster recovery solution in an additional Region that keeps the current application code. The application runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an EC2 Auto Scaling group across multiple Availability Zones. The database layer is hosted on an Amazon RDS MySQL Multi-AZ DB instance. Amazon Route 53 DNS records point to the ALB.

Which combination of actions will meet these requirements with the LOWEST cost? (Choose three.)

A. Configure a failover routing policy for the application DNS entry.

B. Configure a geolocation routing policy for the application DNS entry.

C. Create a cross-Region RDS read replica in the new standby Region.

D. Migrate the database layer to Amazon DynamoDB and enable global replication to the new standby Region.

E. Provision the ALB and Auto Scaling group in the new standby Region and set the desired capacity to match the active Region.

F. Provision the ALB and Auto Scaling group in the new standby Region and set the desired capacity to 1.

Correct Answer: CDE

QUESTION 4

A DevOps engineer is building a centralized CI/CD pipeline using AWS CodeBuild, AWS CodeDeploy, and Amazon S3. The engineer is required to have least privilege access and individual encryption at rest for all artifacts in Amazon S3. The engineer must be able to prune old artifacts without the ability to download or read them.

The engineer has already completed the following steps:

1.

Created a unique AWS KMS CMK and S3 bucket for each project\\'s builds.

2.

Updated the S3 bucket policy to only allow uploads that use the associated KMS encryption.

Which final step should be taken to meet these requirements?

A. Update the attached IAM policies to allow access to the appropriate KMS key from the CodeDeploy role where the application will be deployed.

B. Update the attached IAM policies to allow access to the appropriate KMS key from the EC2 instance roles where the

application will be deployed.

C. Update the CMK key policy to allow access to the appropriate KMS key from the CodeDeploy role where the application will be deployed.

D. Update the CMK key policy to allow to the appropriate KMS key from the EC2 instance roles where the application will be deployed.

Correct Answer: A

QUESTION 5

A DevOps Engineer is tasked with moving a mission-critical business application running in Go to AWS. The Development team running this application is understaffed and requires a solution that allows the team to focus on application development. They also want to enable blue/green deployments and perform A/B testing.

Which solution will meet these requirements?

A. Deploy the application on an Amazon EC2 instance and create an AMI of this instance. Use this AMI to create an automatic scaling launch configuration that is used in an Auto Scaling group. Use an Elastic Load Balancer to distribute traffic. When changes are made to the application, a new AMI is created and replaces the launch configuration.

B. Use Amazon Lightsail to deploy the application. Store the application in a zipped format in an Amazon S3 bucket. Use this zipped version to deploy new versions of the application to Lightsail. Use Lightsail deployment options to manage the deployment.

C. Use AWS CodePipeline with AWS CodeDeploy to deploy the application to a fleet of Amazon EC2 instances. Use an Elastic Load Balancer to distribute the traffic to the EC2 instances. When making changes to the application, upload a new version to CodePipeline and let it deploy the new version.

D. Use AWS Elastic Beanstalk to host the application. Store a zipped version of the application in Amazon S3, and use that location to deploy new versions of the application using Elastic Beanstalk to manage the deployment options.

Correct Answer: D