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QUESTION 1

A DevOps engineer manages a web application that 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 engineer needs to implement a deployment strategy that:

1.

Launches a second fleet of instances with the same capacity as the original fleet.

2.

Maintains the original fleet unchanged while the second fleet is launched.

3.

Transitions traffic to the second fleet when the second fleet is fully deployed.

4.

Terminates the original fleet automatically 1 hour after transition.

Which solution will satisfy these requirements?

A. Use an AWS CloudFormation template with a retention policy for the ALB set to 1 hour. Update the Amazon Route 53 record to reflect the new ALB.

B. Use two AWS Elastic Beanstalk environments to perform a blue/green deployment from the original environment to the new one. Create an application version lifecycle policy to terminate the original environment in 1 hour.

C. Use AWS CodeDeploy with a deployment group configured with a blue/green deployment configuration. Select the option Terminate the original instances in the deployment group with a waiting period of 1 hour.

D. Use AWS Elastic Beanstalk with the configuration set to Immutable. Create an .ebextension using the Resources key that sets the deletion policy of the ALB to 1 hour, and deploy the application.

Correct Answer: C

https://docs.aws.amazon.com/codedeploy/latest/APIReference/API_BlueInstanceTerminationOption.html The original revision termination settings are configured to wait 1 hour after traffic has been rerouted before terminating the blue task set. <https://docs.aws.amazon.com/AmazonECS/latest/developerguide/deployment-type-bluegreen.html>

QUESTION 2

A DevOps Engineer has been asked to recommend a tool to deploy the components of a three-tier web application. This application will use Amazon DynamoDB as a database. Which deployment requires the LEAST amount of operational management?

A. Use AWS CloudFormation to create a Classic Load Balancer and an Auto Scaling group. Use AWS OpsWorks to create the application and database resources. Deploy application updates with OpsWorks using lifecycle events.

B. Use AWS OpsWorks to create a Classic Load Balancer, an Auto Scaling group application, and database resources. Deploy application updates using OpsWorks lifecycle events.



C. Use AWS OpsWorks to create a Classic Load Balancer Auto Scaling and application resources Use AWS CloudFormation to create the database resources Deploy application updates using CloudFormation rolling updates

D. Use AWS CloudFormation to create a Classic Load Balancer an Auto Scaling group and database resources Deploy application updates using CloudFormation rolling updates

Correct Answer: B

QUESTION 3

A company uses containers for its applications. The company learns that some container images are missing required security configurations.

A DevOps engineer needs to implement a solution to create a standard base image. The solution must publish the base image weekly to the us-west-2 Region, us-east-2 Region, and eu-central-1 Region. Which solution will meet these requirements?

A. Create an EC2 Image Builder pipeline that uses a container recipe to build the image. Configure the pipeline to distribute the image to an Amazon Elastic Container Registry (Amazon ECR) repository in us-west-2. Configure ECR replication from us-west-2 to us-east-2 and from us-east-2 to eu-central-1. Configure the pipeline to run weekly.

B. Create an AWS CodePipeline pipeline that uses an AWS CodeBuild project to build the image. Use AWS CodeDeploy to publish the image to an Amazon Elastic Container Registry (Amazon ECR) repository in us-west-2. Configure ECR replication from us-west-2 to us-east-2 and from us-east-2 to eu-central-1. Configure the pipeline to run weekly.

C. Create an EC2 Image Builder pipeline that uses a container recipe to build the image. Configure the pipeline to distribute the image to Amazon Elastic Container Registry (Amazon ECR) repositories in all three Regions. Configure the pipeline to run weekly.

D. Create an AWS CodePipeline pipeline that uses an AWS CodeBuild project to build the image. Use AWS CodeDeploy to publish the image to Amazon Elastic Container Registry (Amazon ECR) repositories in all three Regions. Configure the pipeline to run weekly.

Correct Answer: C

QUESTION 4

A company deploys an application to two AWS Regions. The application creates and stores objects in an Amazon S3 bucket that is in the same Region as the application. Both deployments of the application need to have access to all the objects and their metadata from both Regions. The company has configured two-way replication between the S3 buckets and has enabled S3 Replication metrics on each S3 bucket.

A DevOps engineer needs to implement a solution that retries the replication process if an object fails to replicate.

Which solution will meet these requirements?

A. Create an Amazon EventBridge rule that listens to S3 event notifications for failed replication events. Create an AWS Lambda function that downloads the failed replication object and then runs a PutObject command for the object to the destination bucket. Configure the EventBridge rule to invoke the Lambda function to handle the object that failed to replicate.

B. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure S3 event notifications to send failed



replication notifications to the SQS queue. Create an AWS Lambda function that downloads the failed replication object and then runs a PutObject command for the object to the destination bucket. Configure the Lambda function to poll the queue for notifications to process.

C. Create an Amazon EventBridge rule that listens to S3 event notifications for failed replications. Create an AWS Lambda function that downloads the failed replication object and then runs a PutObject command for the object to the destination bucket.

D. Create an AWS Lambda function that will use S3 batch operations to retry the replication on the existing object for a failed replication. Configure S3 event notifications to send failed replication notifications to the Lambda function.

Correct Answer: D

QUESTION 5

A company runs an application for multiple environments in a single AWS account. An AWS CodePipeline pipeline uses a development Amazon Elastic Container Service (Amazon ECS) cluster to test an image for the application from an Amazon Elastic Container Registry (Amazon ECR) repository. The pipeline promotes the image to a production ECS cluster.

The company needs to move the production cluster into a separate AWS account in the same AWS Region. The production cluster must be able to download the images over a private connection.

Which solution will meet these requirements?

A. Use Amazon ECR VPC endpoints and an Amazon S3 gateway endpoint. In the separate AWS account, create an ECR repository. Set the repository policy to allow the production ECS tasks to pull images from the main AWS account. Configure the production ECS task execution role to have permission to download the image from the ECR repository.

B. Set a repository policy on the production ECR repository in the main AWS account. Configure the repository policy to allow the production ECS tasks in the separate AWS account to pull images from the main account. Configure the production ECS task execution role to have permission to download the image from the ECR repository.

C. Configure ECR private image replication in the main AWS account. Activate cross-account replication. Define the destination account ID of the separate AWS account.

D. Use Amazon ECR VPC endpoints and an Amazon S3 gateway endpoint. Set a repository policy on the production ECR repository in the main AWS account. Configure the repository policy to allow the production ECS tasks in the separate AWS account to pull images from the main account. Configure the production ECS task execution role to have permission to download the image from the ECR repository.

Correct Answer: D

Using Amazon ECR VPC endpoints ensures that the ECS tasks in both the development and production clusters can pull Docker images securely over a private connection.

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