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AWS Certified Developer - Associate

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QUESTION 1

An engineer created an A/B test of a new feature on an Amazon CloudWatch Evidently project. The engineer configured two variations of the feature (Variation A and Variation B) for the test. The engineer wants to work exclusively with Variation A. The engineer needs to make updates so that Variation A is the only variation that appears when the engineer hits the application's endpoint.

Which solution will meet this requirement?

- A. Add an override to the feature. Set the identifier of the override to the engineer's user ID. Set the variation to Variation A.
- B. Add an override to the feature. Set the identifier of the override to Variation A. Set the variation to 100%.
- C. Add an experiment to the project. Set the identifier of the experiment to Variation B. Set the variation to 0%.
- D. Add an experiment to the project. Set the identifier of the experiment to the AWS account's account ID. Set the variation to Variation A.

Correct Answer: A

Overrides let you pre-define the variation for selected users. to always receive the editable variation.

<https://aws.amazon.com/blogs/aws/cloudwatch-evidently/>

QUESTION 2

A developer is migrating an application to Amazon Elastic Kubernetes Service (Amazon EKS). The developer migrates the application to Amazon Elastic Container Registry (Amazon ECR) with an EKS cluster.

As part of the application migration to a new backend, the developer creates a new AWS account. The developer makes configuration changes to the application to point the application to the new AWS account and to use new backend resources. The developer successfully tests the changes within the application by deploying the pipeline.

The Docker image build and the pipeline deployment are successful, but the application is still connecting to the old backend. The developer finds that the application's configuration is still referencing the original EKS cluster and not referencing the new backend resources.

Which reason can explain why the application is not connecting to the new resources?

- A. The developer did not successfully create the new AWS account.
- B. The developer added a new tag to the Docker image.
- C. The developer did not update the Docker image tag to a new version.
- D. The developer pushed the changes to a new Docker image tag.

Correct Answer: C

The correct answer is C. The developer did not update the Docker image tag to a new version. C. The developer did not update the Docker image tag to a new version. This is correct. When deploying an application to Amazon EKS, the developer needs to specify the Docker image tag that contains the application code and configuration. If the developer does not update the Docker image tag to a new version after making changes to the application, the EKS cluster will

continue to use the old Docker image tag that references the original backend resources. To fix this issue, the developer should update the Docker image tag to a new version and redeploy the application to the EKS cluster.

A. The developer did not successfully create the new AWS account. This is incorrect. The creation of a new AWS account is not related to the application's connection to the backend resources. The developer can use any AWS account to host the EKS cluster and the backend resources, as long as they have the proper permissions and configurations. B. The developer added a new tag to the Docker image. This is incorrect. Adding a new tag to the Docker image is not enough to deploy the changes to the application. The developer also needs to update the Docker image tag in the EKS cluster configuration, so that the EKS cluster can pull and run the new Docker image. D. The developer pushed the changes to a new Docker image tag. This is incorrect. Pushing the changes to a new Docker image tag is not enough to deploy the changes to the application. The developer also needs to update the Docker image tag in the EKS cluster configuration, so that the EKS cluster can pull and run the new Docker image.

References:

1: Amazon EKS User Guide, "Deploying applications to your Amazon EKS cluster", <https://docs.aws.amazon.com/eks/latest/userguide/deploying-applications.html>

2: Amazon ECR User Guide, "Pushing an image", <https://docs.aws.amazon.com/AmazonECR/latest/userguide/docker-push-ecr-image.html>

3: Amazon EKS User Guide, "Updating an Amazon EKS cluster", <https://docs.aws.amazon.com/eks/latest/userguide/update-cluster.html>

QUESTION 3

A developer maintains an Amazon API Gateway REST API. Customers use the API through a frontend UI and Amazon Cognito authentication.

The developer has a new version of the API that contains new endpoints and backward-incompatible interface changes. The developer needs to provide beta access to other developers on the team without affecting customers.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Define a development stage on the API Gateway API. Instruct the other developers to point the endpoints to the development stage.
- B. Define a new API Gateway API that points to the new API application code. Instruct the other developers to point the endpoints to the new API.
- C. Implement a query parameter in the API application code that determines which code version to call.
- D. Specify new API Gateway endpoints for the API endpoints that the developer wants to add.

Correct Answer: A

QUESTION 4

A company is implementing an application on Amazon EC2 instances. The application needs to process incoming transactions. When the application detects a transaction that is not valid, the application must send a chat message to the

company's support team. To send the message, the application needs to retrieve the access token to authenticate by using the chat API.

A developer needs to implement a solution to store the access token. The access token must be encrypted at rest and in transit. The access token must also be accessible from other AWS accounts.

Which solution will meet these requirements with the LEAST management overhead?

A. Use an AWS Systems Manager Parameter Store SecureString parameter that uses an AWS Key Management Service (AWS KMS) AWS managed key to store the access token.

Add a resource-based policy to the parameter to allow access from other accounts. Update the IAM role of the EC2 instances with permissions to access Parameter Store. Retrieve the token from Parameter Store with the decrypt flag enabled. Use the decrypted access token to send the message to the chat.

B. Encrypt the access token by using an AWS Key Management Service (AWS KMS) customer managed key. Store the access token in an Amazon DynamoDB table. Update the IAM role of the EC2 instances with permissions to access DynamoDB and AWS KMS. Retrieve the token from DynamoDB. Decrypt the token by using AWS KMS on the EC2 instances. Use the decrypted access token to send the message to the chat.

C. Use AWS Secrets Manager with an AWS Key Management Service (AWS KMS) customer managed key to store the access token. Add a resource-based policy to the secret to allow access from other accounts. Update the IAM role of the EC2 instances with permissions to access Secrets Manager. Retrieve the token from Secrets Manager. Use the decrypted access token to send the message to the chat.

D. Encrypt the access token by using an AWS Key Management Service (AWS KMS) AWS managed key. Store the access token in an Amazon S3 bucket. Add a bucket policy to the S3 bucket to allow access from other accounts. Update the IAM role of the EC2 instances with permissions to access Amazon S3 and AWS KMS. Retrieve the token from the S3 bucket. Decrypt the token by using AWS KMS on the EC2 instances. Use the decrypted access token to send the message to the chat.

Correct Answer: C

<https://aws.amazon.com/premiumsupport/knowledge-center/secrets-manager-share-between-accounts/>
https://docs.aws.amazon.com/secretsmanager/latest/userguide/auth-and-access_examples_cross.html

QUESTION 5

A company requires that all applications running on Amazon EC2 use IAM roles to gain access to AWS services. A developer is modifying an application that currently relies on IAM user access keys stored in environment variables to access Amazon DynamoDB tables using boto, the AWS SDK for Python.

The developer associated a role with the same permissions as the IAM user to the EC2 instance, then deleted the IAM user. When the application was restarted, the AWS AccessDeniedException messages started appearing in the application logs. The developer was able to use their personal account on the server to run DynamoDB API commands using the AWS CLI.

What is the MOST likely cause of the exception?

A. IAM policies might take a few minutes to propagate to resources.

B. Disabled environment variable credentials are still being used by the application.

C. The AWS SDK does not support credentials obtained using an instance role.

D. The instance's security group does not allow access to http://169.254.169.254.

Correct Answer: B

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