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## Amazon AWS Certified Developer - Associate Sample Questions (Q512-Q517):

**NEW QUESTION # 512**
A company needs to harden its container images before the images are in a running state. The company's application uses Amazon Elastic Container Registry (Amazon ECR) as an image registry. Amazon Elastic Kubernetes Service (Amazon EKS) for compute, and an AWS CodePipeline pipeline that orchestrates a continuous integration and continuous delivery (CI/CD) workflow. Dynamic application security testing occurs in the final stage of the pipeline after a new image is deployed to a development namespace in the EKS cluster. A developer needs to place an analysis stage before this deployment to analyze the container image earlier in the CI/CD pipeline.
Which solution will meet these requirements with the MOST operational efficiency?

- A. Build the container image and run the docker scan command locally. Mitigate any findings before pushing changes to the source code repository. Write a pre-commit hook that enforces the use of this workflow before commit.
- B. Create a new CodePipeline stage that occurs after source code has been retrieved from its repository. Run a security scanner on the latest revision of the source code. Fail the pipeline if there are findings.

- C. Create a new CodePipeline stage that occurs after the container image is built. Configure ECR basic image scanning to scan on image push. Use an AWS Lambda function as the action provider. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.
- D. Add an action to the deployment stage of the pipeline so that the action occurs before the deployment to the EKS cluster. Configure ECR basic image scanning to scan on image push. Use an AWS Lambda function as the action provider. Configure the Lambda function to check the scan results and to fail the pipeline if there are findings.

**Answer: D**


# NEW QUESTION # 513

When using the AWS Encryption SDK how does the developer keep track of the data encryption keys used to encrypt data?

- A. The developer must manually keep Hack of the data encryption keys used for each data object.
- B. The SDK stores the data encryption keys automaticity in Amazon S3.
- C. The SDK encrypts the data encryption key and stores it (encrypted) as part of the resumed ophertext.
- D. The data encryption key is stored m the user data for the EC2 instance.

**Answer: C**

Explanation:
This solution will meet the requirements by using AWS Encryption SDK, which is a client-side encryption library that enables developers to encrypt and decrypt data using data encryption keys that are protected by AWS Key Management Service (AWS KMS). The SDK encrypts the data encryption key with a customer master key (CMK) that is managed by AWS KMS, and stores it (encrypted) as part of the returned ciphertext. The developer does not need to keep track of the data encryption keys used to encrypt data, as they are stored with the encrypted data and can be retrieved and decrypted by using AWS KMS when needed. Option A is not optimal because it will require manual tracking of the data encryption keys used for each data object, which is error-prone and inefficient. Option C is not optimal because it will store the data encryption keys automatically in Amazon S3, which is unnecessary and insecure as Amazon S3 is not designed for storing encryption keys. Option D is not optimal because it will store the data encryption key in the user data for the EC2 instance, which is also unnecessary and insecure as user data is not encrypted by default.


# NEW QUESTION # 514

A developer is building an application that uses an Amazon RDS for PostgreSQL database. To meet security requirements, the developer needs to ensure that data is encrypted at rest. The developer must be able to rotate the encryption keys on demand.

- A. Create a 256-bit AES-GCM encryption key. Store the key in AWS Secrets Manager. Configure an AWS Lambda function to perform key rotation. Use the key to encrypt the database.
- B. Create a 256-bit AES-GCM encryption key. Store the key in AWS Secrets Manager, and enable managed rotation. Use the key to encrypt the database.
- C. Use an AWS KMS managed encryption key to encrypt the database.
- D. Create a symmetric customer managed AWS KMS key. Use the key to encrypt the database.

**Answer: D**

Explanation:
Comprehensive Detailed Explanation with all AWS Reference
Why Option B is Correct:
A customer-managed AWS Key Management Service (KMS) key allows for encryption at rest and provides the ability to rotate the key on demand. This ensures compliance with security requirements for key management and database encryption.
RDS integrates natively with AWS KMS, allowing the use of a customer-managed key for encrypting data at rest.
Key rotation can be managed directly in AWS KMS without needing custom solutions.
Why Other Options are Incorrect:
Option A: AWS KMS managed encryption keys (AWS-owned keys) do not support key rotation on demand.
Option C & D: Storing keys in AWS Secrets Manager with custom rotation is not a recommended approach for database encryption. AWS KMS is designed specifically for secure key management and encryption.
AWS Documentation Reference:
Encrypting Amazon RDS Resources
AWS Key Management Service (KMS)

## NEW QUESTION # 515

A developer previously deployed an AWS Lambda function as a .zip package. The developer needs to deploy the Lambda function as a container.

- A. Create an AWS CloudFormation template that defines the Lambda function and its resources as code.
  Include a container image in the template, and store the image in an Amazon S3 bucket. Deploy the CloudFormation template. Specify the S3 bucket URI.
- B. Create an AWS SAM template that defines the Lambda function and its resources as code. Include a container image in the template, and store the container image in an Amazon S3 bucket. Deploy the AWS SAM template. Specify the S3 bucket URI.
- C. Create an Amazon ECR repository in the same AWS Region as the Lambda function. Package the Lambda function into a container image. Build the image and upload it to the Amazon ECR repository.
  Update the existing Lambda function configuration to specify the repository URI and container image tag.
- D. Create an Amazon ECR repository in the same AWS Region as the Lambda function. Build the image and upload it to the Amazon ECR repository. Update the existing Lambda function to use the new image by specifying the repository URI.

**Answer: C**

Explanation:
Comprehensive Detailed Explanation with all AWS References
* Why Option A is Correct:Converting a Lambda function to use a container image involves packaging the function code into a container image, storing the image in Amazon Elastic Container Registry (ECR), and updating the function to use the ECR repository URI.
* Why Other Options are Incorrect:
* Option B: SAM templates support container-based Lambda deployment, but storing the image in S3 is not applicable.
* Option C: CloudFormation does not natively support specifying Lambda container images in S3.
* Option D: While partially correct, it omits the need to specify the image tag for the deployment.
* AWS Documentation References:
* Lambda Container Images

## NEW QUESTION # 516

A developer is creating an AWS Lambda function. The Lambda function will consume messages from an Amazon Simple Queue Service (Amazon SQS) queue. The developer wants to integrate unit testing as part of the function's continuous integration and continuous delivery (CI/CD) process.
How can the developer unit test the function?

- A. Create an SQS event for tests. Use a test that consumes messages from the SQS queue during the function's CI/CD process.
- B. Use the aws lambda invoke command with a test event during the CIICD process.
- C. Create an AWS CloudFormation template that creates an SQS queue and deploys the Lambda function. Create a stack from the template during the CI/CD process. Invoke the deployed function. Verify the output.
- D. Create an SQS queue for tests. Use this SQS queue in the application's unit test. Run the unit tests during the CI/CD process.

**Answer: D**

Explanation:
Unit testing is a type of testing that verifies the correctness of individual units of source code, typically functions or methods. When unit testing a Lambda function that interacts with Amazon SQS, you can create a separate test SQS queue that the Lambda function interacts with during testing. You would then validate the behavior of the function based on its interactions with the test queue. This approach isolates the function's behavior from the rest of the system, which is a key principle of unit testing.
https://aws.amazon.com/blogs/devops/unit-testing-aws-lambda-with-python-and-mock-aws- services/

## NEW QUESTION # 517

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