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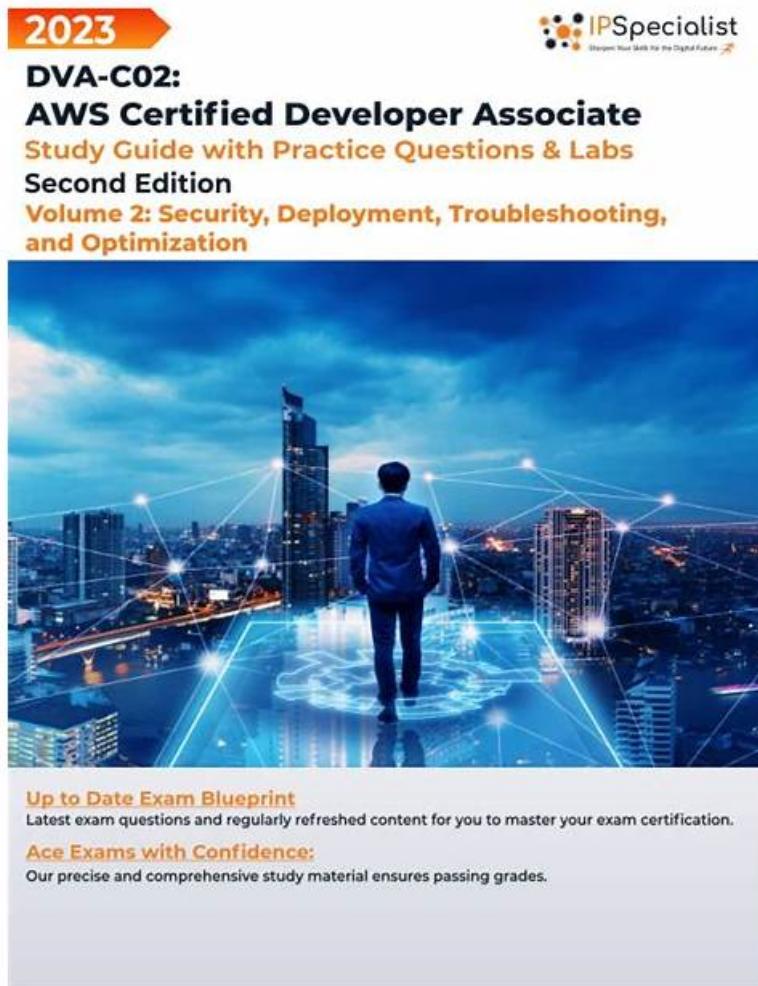

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To be eligible for the Amazon DVA-C02 Exam, candidates must have at least one year of experience in developing and maintaining AWS-based applications. They should have a good understanding of AWS core services and be proficient in at least one programming language such as Java, Python, or Ruby. Candidates should also have experience working with AWS SDKs and APIs, and be familiar with AWS CLI and CloudFormation.

Amazon AWS Certified Developer - Associate Sample Questions (Q172-Q177):

NEW QUESTION # 172
A company has a serverless application that uses Amazon API Gateway and AWS Lambda functions to expose a RESTful API. The company uses a continuous integration and continuous delivery (CI/CD) workflow to deploy the application to multiple environments. The company wants to implement automated integration tests after deployment.
A developer needs to set up the necessary infrastructure and processes to automate the deployment and integration tests for the serverless application.

- A. Use AWS CloudFormation to create and deploy the application infrastructure in each application environment. Use the AWS CLI to invoke Lambda functions to perform deployment tests after each deployment.
- B. Configure API Gateway stages to represent each application environment. Use AWS SAM templates to manage the infrastructure for the Lambda functions and API resources. Use AWS CodeBuild to implement automated deployment tests to validate the deployments in each stage.
- C. Configure API Gateway stages to represent each application environment. Use AWS CloudFormation to manage the infrastructure for the Lambda functions and API resources. Use AWS CodeBuild to implement automated deployment tests to validate the deployments in each stage.
- D. Use AWS CodePipeline to create a CI/CD pipeline. Configure API Gateway stages to represent each application environment. Use AWS CloudFormation templates to manage the infrastructure for the Lambda functions and API resources. Use AWS CodeBuild to implement automated deployment tests to validate the deployments in each stage.

Answer: D

Explanation:
Comprehensive and Detailed Step-by-Step
Option C: Use AWS CodePipeline for CI/CD Workflow:
AWS CodePipeline automates the entire CI/CD pipeline, including build, deploy, and test stages. This minimizes manual effort and integrates well with AWS services.
API Gateway Stages: Represent different environments, such as dev, test, and prod, allowing isolated deployment and testing.
AWS CloudFormation Templates: Ensure that the infrastructure for Lambda and API Gateway is consistent across environments.
AWS CodeBuild for Automated Tests: Validates the deployments in each stage, ensuring integration and functionality are tested post-deployment.
Why Other Options Are Incorrect:
Option A and B: While using AWS SAM or CloudFormation for infrastructure management is valid, these options lack the fully automated CI/CD pipeline provided by CodePipeline.
Option D: Manually invoking Lambda functions using the AWS CLI introduces operational overhead and lacks the automation provided by CodePipeline.
Reference:
AWS CodePipeline Documentation
API Gateway Stages for CI/CD

NEW QUESTION # 173
A developer is planning to migrate on-premises company data to Amazon S3. The data must be encrypted, and the encryption Keys must support automate annual rotation. The company must use AWS Key Management Service (AWS KMS) to encrypt the data. When type of keys should the developer use to meet these requirements?

- A. Amazon S3 managed keys

- B. Symmetric customer managed keys with imported key material
- C. Symmetric customer managed keys with key material that is generated by AWS
- D. Asymmetric customer managed keys with key material that generated by AWS

Answer: C

Explanation:
The type of keys that the developer should use to meet the requirements is symmetric customer managed keys with key material that is generated by AWS. This way, the developer can use AWS Key Management Service (AWS KMS) to encrypt the data with a symmetric key that is managed by the developer. The developer can also enable automatic annual rotation for the key, which creates new key material for the key every year. The other options either involve using Amazon S3 managed keys, which do not support automatic annual rotation, or using asymmetric keys or imported key material, which are not supported by S3 encryption.

NEW QUESTION # 174
A developer is creating a machine learning (ML) pipeline in AWS Step Functions that contains AWS Lambda functions. The developer has configured an Amazon Simple Queue Service (Amazon SQS) queue to deliver ML model parameters to the ML pipeline to train ML models. The developer uploads the trained models are uploaded to an Amazon S3 bucket.
The developer needs a solution that can locally test the ML pipeline without making service integration calls to Amazon SQS and Amazon S3.
Which solution will meet these requirements?

- A. Use the AWS Serverless Application Model (AWS SAM) CLI to run and locally test the Lambda functions.
- B. Use AWS Step Functions Local with mocked service integrations.
- C. Use the Amazon CodeGuru Profiler to analyze the Lambda functions used in the AWS Step Functions pipeline.
- D. Use the AWS Step Functions Local Docker Image to run and locally test the Lambda functions.

Answer: B

NEW QUESTION # 175
A developer is using an AWS CloudFormation template to create a pipeline in AWS CodePipeline. The template creates an Amazon S3 bucket that the pipeline references in a source stage. The template also creates an AWS CodeBuild project for a build stage. The pipeline sends notifications to an Amazon SNS topic. Logs for the CodeBuild project are stored in Amazon CloudWatch Logs.
The company needs to ensure that the pipeline's artifacts are encrypted with an existing customer-managed AWS KMS key. The developer has granted the pipeline permissions to use the KMS key.
Which additional step will meet these requirements?

- A. Apply an S3 bucket policy that ensures the pipeline sends only encrypted objects to the S3 bucket.
- B. In the CloudFormation template, use the KMS key to encrypt the logs in CloudWatch Logs.
- C. Configure the notification topic to use the existing KMS key to enable encryption with the existing KMS key.
- D. Create an Amazon S3 gateway endpoint that the pipeline can access.

Answer: A

Explanation:
Comprehensive Detailed Explanation with all AWS Reference
Why Option C is Correct:
Ensuring that pipeline artifacts are encrypted with a customer-managed AWS KMS key involves configuring the S3 bucket policy to require encryption. This policy ensures all objects uploaded to the bucket are encrypted with the specified KMS key.
Why Other Options are Incorrect:
Option A: A gateway endpoint improves S3 access efficiency but does not enforce encryption.
Option B: Encrypting CloudWatch Logs is unrelated to securing pipeline artifacts.
Option D: Configuring SNS for encryption does not affect the artifacts stored in the S3 bucket.
AWS Documentation Reference:
Using Server-Side Encryption with S3 Bucket Policies

NEW QUESTION # 176

A developer is working on a Python application that runs on Amazon EC2 instances. The developer wants to enable tracing of application requests to debug performance issues in the code.

Which combination of actions should the developer take to achieve this goal? (Select TWO)

- A. Configure the application to write JSON-formatted togs to /var/log/cloudwatch.
- B. Install the Amazon CloudWatch agent on the EC2 instances.
- C. Configure the application to write trace data to /Var/log-/xray.
- D. Install the AWS X-Ray daemon on the EC2 instances.
- E. Install and configure the AWS X-Ray SDK for Python in the application.

Answer: D,E

Explanation:

This solution will meet the requirements by using AWS X-Ray to enable tracing of application requests to debug performance issues in the code. AWS X-Ray is a service that collects data about requests that the applications serve, and provides tools to view, filter, and gain insights into that data. The developer can install the AWS X-Ray daemon on the EC2 instances, which is a software that listens for traffic on UDP port 2000, gathers raw segment data, and relays it to the X-Ray API. The developer can also install and configure the AWS X-Ray SDK for Python in the application, which is a library that enables instrumenting Python code to generate and send trace data to the X-Ray daemon. Option A is not optimal because it will install the Amazon CloudWatch agent on the EC2 instances, which is a software that collects metrics and logs from EC2 instances and on-premises servers, not application performance data. Option C is not optimal because it will configure the application to write JSON-formatted logs to /var/log/cloudwatch, which is not a valid path or destination for CloudWatch logs. Option D is not optimal because it will configure the application to write trace data to /var/log/xray, which is also not a valid path or destination for X-Ray trace data.

NEW QUESTION # 177

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