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Amazon AWS Certified Developer - Associate Sample Questions (Q541-Q546):

NEW QUESTION # 541

A developer is building a new application that will be deployed on AWS. The developer has created an AWS CodeCommit repository for the application. The developer has initialized a new project for the application by invoking the AWS Cloud Development Kit (AWS CDK) `cdk init` command.

The developer must write unit tests for the infrastructure as code (IaC) templates that the AWS CDK generates. The developer also must run a validation tool across all constructs in the CDK application to ensure that critical security configurations are activated.

Which combination of actions will meet these requirements with the LEAST development overhead? (Choose two.)

- A. Write a script that searches the application for specific key configuration strings. Configure the script to produce a report of any security violations.
- B. Use the CDK `Aspects` class to create custom rules to apply to the CDK application. Fail the stack synthesis if any violations are present.
- C. Use the CDK `assertions` module to integrate unit tests with the application. Run the unit tests in a continuous integration and continuous delivery (CI/CD) pipeline that is invoked after any commit to the repository.
- D. Use a unit testing framework to write custom unit tests against the `cdk.out` file that the AWS CDK generates. Run the unit tests in a continuous integration and continuous delivery (CI/CD) pipeline that is invoked after any commit to the repository.
- E. Use the CDK runtime context to set key-value pairs that must be present in the `cdk.out` file that the AWS CDK generates. Fail the stack synthesis if any violations are present.

Answer: B,C

NEW QUESTION # 542

When a developer tries to run an AWS Code Build project, it raises an error because the length of all environment variables exceeds the limit for the combined maximum of characters.

What is the recommended solution?

- A. Add the `export LC_ALL="en_US.UTF-8"` command to the `pre_build` section to ensure POSIX Localization.
- B. Update the settings for the build project to use an Amazon S3 bucket for large numbers of environment variables
- C. Use Amazon Cognito to store key-value pairs for large numbers of environment variables
- D. Use AWS Systems Manager Parameter Store to store large numbers of environment variables

Answer: D

Explanation:

Explanation

This solution allows the developer to overcome the limit for the combined maximum of characters for environment variables in AWS CodeBuild. AWS Systems Manager Parameter Store provides secure, hierarchical storage for configuration data management and secrets management. The developer can store large numbers of environment variables as parameters in Parameter Store and reference them in the `buildspec` file using parameter references. Adding `export LC_ALL="en_US.UTF-8"` command to the `pre_build` section will not affect the environment variables limit. Using Amazon Cognito or an Amazon S3 bucket to store key-value pairs for environment variables will require additional configuration and integration.

NEW QUESTION # 543

A developer is building a new application on AWS. The application uses an AWS Lambda function that retrieves information from an Amazon DynamoDB table. The developer hard coded the DynamoDB table name into the Lambda function code. The table name might change over time. The developer does not want to modify the Lambda code if the table name changes. Which solution will meet these requirements MOST efficiently?

- **A. Create a Lambda environment variable to store the table name. Use the standard method for the programming language to retrieve the variable.**
- B. Create a file to store the table name. Zip the file and upload the file to the Lambda layer. Use the SDK for the programming language to retrieve the table name.
- C. Store the table name in a file. Store the file in the /tmp folder. Use the SDK for the programming language to retrieve the table name.
- D. Create a global variable that is outside the handler in the Lambda function to store the table name.

Answer: A

Explanation:

You need to use environment variables.

<https://docs.aws.amazon.com/lambda/latest/dg/configuration-envvars.html>

NEW QUESTION # 544

A developer is setting up a deployment pipeline. The pipeline includes an AWS CodeBuild build stage that requires access to a database to run integration tests. The developer is using a buildspec.yml file to configure the database connection. Company policy requires automatic rotation of all database credentials.

Which solution will handle the database credentials MOST securely?

- A. Retrieve the credentials from an environment variable that is linked to an AWS Secrets Manager secret. Configure Secrets Manager for automatic rotation.
- B. Retrieve the credentials from variables that are hardcoded in the buildspec.yml file. Configure an AWS Lambda function to rotate the credentials.
- **C. Retrieve the credentials from an environment variable that is linked to a SecureString parameter in AWS Systems Manager Parameter Store. Configure Parameter Store for automatic rotation.**
- D. Retrieve the credentials from an environment variable that contains the connection string in plaintext. Configure an Amazon EventBridge event to rotate the credentials.

Answer: C

NEW QUESTION # 545

A company has a web application that is hosted on AWS. The application is behind an Amazon CloudFront distribution. A developer needs a dashboard to monitor error rates and anomalies of the CloudFront distribution as frequently as possible.

Which combination of steps should the developer take to meet these requirements? (Choose two.)

- **A. Set up Amazon Kinesis Data Streams to send the logs to Amazon OpenSearch Service by using an AWS Lambda function. Make a dashboard in OpenSearch Dashboards.**
- B. Set up Amazon Kinesis Data Firehose to send the logs to AWS CloudTrail. Create CloudTrail metrics, alarms, and dashboards.
- **C. Enable real-time logs on the CloudFront distribution. Create a data stream in Amazon Kinesis Data Streams.**
- D. Stream the CloudFront distribution logs to Amazon Kinesis Data Firehose.
- E. Stream the CloudFront distribution logs to an Amazon S3 bucket. Detect anomalies and error rates by using Amazon Athena.

Answer: A,C

NEW QUESTION # 546

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