



# DVA-C02<sup>Q&As</sup>

AWS Certified Developer - Associate

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**QUESTION 1**

A developer is building an application that gives users the ability to view bank accounts from multiple sources in a single dashboard. The developer has automated the process to retrieve API credentials for these sources. The process invokes

an AWS Lambda function that is associated with an AWS CloudFormation custom resource.

The developer wants a solution that will store the API credentials with minimal operational overhead.

Which solution will meet these requirements in the MOST secure way?

- A. Add an AWS Secrets Manager GenerateSecretString resource to the CloudFormation template. Set the value to reference new credentials for the CloudFormation resource.
- B. Use the AWS SDK ssm:PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter type to SecureString.
- C. Add an AWS Systems Manager Parameter Store resource to the CloudFormation template. Set the CloudFormation resource value to reference the new credentials. Set the resource NoEcho attribute to true.
- D. Use the AWS SDK ssm:PutParameter operation in the Lambda function from the existing custom resource to store the credentials as a parameter. Set the parameter value to reference the new credentials. Set the parameter NoEcho attribute to true.

Correct Answer: D

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**QUESTION 2**

A developer is building a serverless application by using AWS Serverless Application Model (AWS SAM) on multiple AWS Lambda functions. When the application is deployed, the developer wants to shift 10% of the traffic to the new deployment of the application for the first 10 minutes after deployment. If there are no issues, all traffic must switch over to the new version.

Which change to the AWS SAM template will meet these requirements?

- A. Set the Deployment Preference Type to Canary10Percent10Minutes. Set the AutoPublishAlias property to the Lambda alias.
- B. Set the Deployment Preference Type to Linear10PercentEvery10Minutes. Set AutoPublishAlias property to the Lambda alias.
- C. Set the Deployment Preference Type to Canary10Percent10Minutes. Set the PreTraffic and PostTraffic properties to the Lambda alias.
- D. Set the Deployment Preference Type to Linear10PercentEvery10Minutes. Set PreTraffic and PostTraffic properties to the Lambda alias.

Correct Answer: B

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**QUESTION 3**

A company uses AWS Lambda functions and an Amazon S3 trigger to process images into an S3 bucket. A development team set up multiple environments in a single AWS account.

After a recent production deployment, the development team observed that the development S3 buckets invoked the production environment Lambda functions. These invocations caused unwanted execution of development S3 files by using production Lambda functions. The development team must prevent these invocations. The team must follow security best practices.

Which solution will meet these requirements?

- A. Update the Lambda execution role for the production Lambda function to add a policy that allows the execution role to read from only the production environment S3 bucket.
- B. Move the development and production environments into separate AWS accounts. Add a resource policy to each Lambda function to allow only S3 buckets that are within the same account to invoke the function.
- C. Add a resource policy to the production Lambda function to allow only the production environment S3 bucket to invoke the function.
- D. Move the development and production environments into separate AWS accounts. Update the Lambda execution role for each function to add a policy that allows the execution role to read from the S3 bucket that is within the same account.

Correct Answer: B

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**QUESTION 4**

A company is running Amazon EC2 instances in multiple AWS accounts. A developer needs to implement an application that collects all the lifecycle events of the EC2 instances. The application needs to store the lifecycle events in a single Amazon Simple Queue Service (Amazon SQS) queue in the company's main AWS account for further processing.

Which solution will meet these requirements?

- A. Configure Amazon EC2 to deliver the EC2 instance lifecycle events from all accounts to the Amazon EventBridge event bus of the main account. Add an EventBridge rule to the event bus of the main account that matches all EC2 instance lifecycle events. Add the SQS queue as a target of the rule.
- B. Use the resource policies of the SQS queue in the main account to give each account permissions to write to that SQS queue. Add to the Amazon EventBridge event bus of each account an EventBridge rule that matches all EC2 instance lifecycle events. Add the SQS queue in the main account as a target of the rule.
- C. Write an AWS Lambda function that scans through all EC2 instances in the company accounts to detect EC2 instance lifecycle changes. Configure the Lambda function to write a notification message to the SQS queue in the main account if the function detects an EC2 instance lifecycle change. Add an Amazon EventBridge scheduled rule that invokes the Lambda function every minute.
- D. Configure the permissions on the main account event bus to receive events from all accounts. Create an Amazon EventBridge rule in each account to send all the EC2 instance lifecycle events to the main account event bus. Add an



EventBridge rule to the main account event bus that matches all EC2 instance lifecycle events. Set the SQS queue as a target for the rule.

Correct Answer: D

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#### QUESTION 5

A developer has written an AWS Lambda function. The function is CPU-bound. The developer wants to ensure that the function returns responses quickly. How can the developer improve the function's performance?

- A. Increase the function's CPU core count.
- B. Increase the function's memory.
- C. Increase the function's reserved concurrency.
- D. Increase the function's timeout.

Correct Answer: B

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