



# DVA-C01<sup>Q&As</sup>

AWS Certified Developer - Associate (DVA-C01)

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**QUESTION 1**

A developer is automating a new application deployment with AWS Serverless Application Model (AWS SAM). The new application has one AWS Lambda function and one Amazon S3 bucket. The Lambda function must access the S3 bucket to only read objects.

How should the developer configure AWS SAM to grant the necessary read privilege to the S3 bucket?

- A. Reference a second Lambda authorizer function.
- B. Add a custom S3 bucket policy to the Lambda function.
- C. Create an Amazon Simple Queue Service (SQS) topic for only S3 object reads. Reference the topic in the template.
- D. Add the S3ReadPolicy template to the Lambda function's execution role.

Correct Answer: D

Reference: <https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-policy-templates.html>

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**QUESTION 2**

How is provisioned throughput affected by the chosen consistency model when reading data from a DynamoDB table?

- A. Strongly consistent reads use the same amount of throughput as eventually consistent reads
- B. Strongly consistent reads use more throughput than eventually consistent reads.
- C. Strongly consistent reads use less throughput than eventually consistent reads
- D. Strongly consistent reads use variable throughput depending on read activity

Correct Answer: B

**QUESTION 3**

A Lambda function is packaged for deployment to multiple environments, including development, test, production, etc. Each environment has unique set of resources such as databases, etc.

How can the Lambda function use the resources for the current environment?

- A. Apply tags to the Lambda functions.
- B. Hardcore resources in the source code.
- C. Use environment variables for the Lambda functions.
- D. Use separate function for development and production.

Correct Answer: C



#### QUESTION 4

How should custom libraries be utilized in AWS Lambda?

- A. Host the library on Amazon S3 and reference to it from the Lambda function.
- B. Install the library locally and upload a ZIP file of the Lambda function.
- C. Import the necessary Lambda blueprint when creating the function.
- D. Modify the function runtime to include the necessary library.

Correct Answer: D

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#### QUESTION 5

A developer is creating AWS CloudFormation templates to manage an application's deployment in Amazon Elastic Container Service (Amazon ECS) through AWS CodeDeploy. The developer wants to automatically deploy new versions of the application to a percentage of users before the new version becomes available for all users.

How should the developer manage the deployment of the new version?

- A. Modify the CloudFormation template to include a Transform section and the `AWS::CodeDeploy::BlueGreen` hook.
- B. Deploy the new version in a new CloudFormation stack. After testing is complete, update the application's DNS records for the new stack.
- C. Run CloudFormation stack updates on the application stack to deploy new application versions when they are available.
- D. Create a nested stack for the new version. Include a Transform section and the `AWS::CodeDeploy::BlueGreen` hook.

Correct Answer: A

Reference: <https://docs.aws.amazon.com/codedeploy/latest/userguide/reference-cloudformation-templates.html>

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#### QUESTION 6

A developer is creating a script to automate the deployment process for a serverless application. The developer wants to use an existing AWS Serverless Application Model (AWS SAM) template for the application. What should the developer use for the project? (Choose two.)

- A. Call `aws cloudformation package` to create the deployment package. Call `aws cloudformation deploy` to deploy the package afterward.
- B. Call `sam package` to create the deployment package. Call `sam deploy` to deploy the package afterward.
- C. Call `aws s3 cp` to upload the AWS SAM template to Amazon S3. Call `aws lambda update-function-code` to create the application.



- D. Create a ZIP package locally and call `aws serverlessrepo create-application` to create the application.
- E. Create a ZIP package and upload it to Amazon S3. Call `aws cloudformation create-stack` to create the application.

Correct Answer: BC

Reference: <https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-getting-started-hello-world.html> <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/using-cfn-cli-package.html>

## QUESTION 7

A company has an Amazon S3 bucket containing premier content that it intends to make available to only paid subscribers of its website. The S3 bucket currently has default permissions of all objects being private to prevent inadvertent exposure of the premier content to non-paying website visitors.

How can the company limit the ability to download a premier content file in the S3 bucket to paid subscribers only?

- A. Apply a bucket policy that allows anonymous users to download the content from the S3 bucket.
- B. Generate a pre-signed object URL for the premier content file when a paid subscriber requests a download.
- C. Add a bucket policy that requires multi-factor authentication for requests to access the S3 bucket objects.
- D. Enable server-side encryption on the S3 bucket for data protection against the non-paying website visitors.

Correct Answer: B

## QUESTION 8

A developer works in an environment with multiple AWS accounts that have AWS Lambda functions processing the same 100 KB payloads. The developer wants to centralize the point of origin of the payloads to one account and have all the Lambda functions be invoked whenever the initiating event occurs in the parent account.

How can the developer design the workflow in the MOST efficient way, so all the multi-account Lambda functions get invoked when the event occurs?

- A. Create a Lambda function in the parent account and use cross-account IAM roles with the AWS Security Token Service (AWS STS) AssumeRole API call to make AWS Lambda invoke the API call to invoke all the cross-account Lambda functions.
- B. Subscribe all the multi-account Lambda functions to an Amazon SNS topic and make a SNS Publish API call with the payload to the SNS topic.
- C. Set up an Amazon SQS queue with the queue policy permitting the ReceiveMessage action for multi-account Lambda functions. Then send the payload to the SQS queue using the `sqs:SendMessage` permission and poll the queue using multi-account Lambda functions.
- D. Use a worker on an Amazon EC2 instance to poll for the payload event. Invoke all Lambda functions using the Lambda Invoke API after using cross-account IAM roles with the AWS Security Token Service (AWS STS) AssumeRole API call.



Correct Answer: D

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#### QUESTION 9

A developer is building a web application. The application will read temperature information from an Amazon DynamoDB table and will display the information for users. Each record is 5 KB to 7 KB in size. The application can request up to 80 items each second. The application must always return the most recent temperature values from the table.

How much read throughput is required to meet this load?

- A. 40 read capacity units (RCUs)
- B. 80 read capacity units (RCUs)
- C. 160 read capacity units (RCUs)
- D. 560 read capacity units (RCUs)

Correct Answer: A

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#### QUESTION 10

A developer has three microservice projects that are separated into different folders under the same AWS CodeCommit repository. Each project has a separate AWS CodePipeline pipeline. The developer notices that when changes are pushed to one microservice, all three pipelines begin to run.

The developer needs to ensure that only relevant pipelines run. The developer cannot make any changes to how the repository is organized.

Which solution will meet these requirements?

- A. For each of the three microservice projects, create a separate CodeCommit repository.
- B. Create an Amazon EventBridge (Amazon CloudWatch Events) rule that invokes an AWS Lambda function to evaluate changes to the repository and run the appropriate pipeline.
- C. Create an Amazon API Gateway API that is backed by an AWS Lambda function to determine the appropriate pipeline to run. Add the API endpoint to a webhook in CodeCommit.
- D. Migrate all three pipelines to a single pipeline. Add conditional stages to build a certain microservice project.

Correct Answer: C

Reference: <https://aws.amazon.com/blogs/devops/adding-custom-logic-to-aws-codepipeline-with-aws-lambda-and-amazon-cloudwatch-events/>

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#### QUESTION 11

A Developer must re-implement the business logic for an order fulfilment system. The business logic has to make



requests to multiple vendors to decide where to purchase an item. The whole process can take up to a week to complete. What is the MOST efficient and SIMPLEST way to implement a system that meets these requirements?

- A. Use AWS Step Functions to execute parallel Lambda functions, and join the results.
- B. Create an AWS SQS for each vendor, poll the queue from a worker instance, and joint the results.
- C. Use AWS Lambda to asynchronously call a Lambda function for each vendor, and join the results.
- D. Use Amazon CloudWatch Events to orchestrate the Lambda functions.

Correct Answer: A

<https://aws.amazon.com/step-functions/>

## QUESTION 12

A developer at a company writes an AWS CloudFormation template. The template refers to subnets that were created by a separate AWS CloudFormation template that the company's network team wrote. When the developer attempts to launch the stack for the first time, the launch fails.

Which template coding mistakes could have caused this failure? (Select TWO.)

- A. The developer's template does not use the Ref intrinsic function to refer to the subnets
- B. The developer's template does not use the ImportValue intrinsic function to refer to the subnets
- C. The Mappings section of the developer's template does not refer to the subnets.
- D. The network team's template does not export the subnets in the Outputs section
- E. The network team's template does not export the subnets in the Mappings section

Correct Answer: BD

## QUESTION 13

A company has three AWS Lambda functions that are written in Node.js. The Lambda functions include a mix of custom code and open-source modules. When bugs are occasionally detected in the open-source modules, all three Lambda functions must be patched.

What is the MOST operationally efficient solution to deploy a patched open-source library for all three Lambda functions?

- A. Create a custom AWS CloudFormation public registry extension. Reference a GitHub repository that hosts the open-source modules in the extension. Configure CloudFormation to scan the repository once each day. Write an AWS Serverless Application Model (AWS SAM) template to redeploy the three Lambda functions upon a scan notification change.
- B. Create an Amazon CloudFront distribution with an Amazon S3 bucket as the origin. Upload the patched modules to Amazon S3 when needed. Modify each Lambda function to download the patched modules from the CloudFront distribution during the cold start.
- C. Launch an Amazon EC2 instance. Host a private open-source module registry on the EC2 instance. Upload the



modified open-source modules to the private registry when needed. Modify each Lambda function deployment script to download the modules from the private registry Redeploy the three new Lambda functions.

D. Create a Lambda layer with the open-source modules Modify all three Lambda functions to depend on the layer Remove the open-source modules from each Lambda function Patch the Lambda layer with the modified open-source modules when needed Update the Lambda functions to reference the new layer version

Correct Answer: D

#### QUESTION 14

A Developer writes an AWS Lambda function and uploads the code in a .ZIP file to Amazon S3. The Developer makes changes to the code and uploads a new .ZIP file to Amazon S3. However, Lambda executes the earlier code. How can the Developer fix this in the LEAST disruptive way?

- A. Create another Lambda function and specify the new .ZIP file.
- B. Call the update-function-code API.
- C. Remove the earlier .ZIP file first, then add the new .ZIP file.
- D. Call the create-alias API.

Correct Answer: B

<https://docs.aws.amazon.com/cli/latest/reference/lambda/update-function-code.html>

#### QUESTION 15

An existing serverless application processes uploaded image files. The process currently uses a single Lambda function that takes an image file, performs the processing, and stores the file in Amazon S3. Users of the application now require thumbnail generation of the images. Users want to avoid any impact to the time it takes to perform the image uploads.

How can thumbnail generation be added to the application, meeting user requirements while minimizing changes to existing code?

- A. Change the existing Lambda function handling the uploads to create thumbnails at the time of upload. Have the function store both the image and thumbnail in Amazon S3.
- B. Create a second Lambda function that handles thumbnail generation and storage. Change the existing Lambda function to invoke it asynchronously.
- C. Create an S3 event notification with a Lambda function destination. Create a new Lambda function to generate and store thumbnails.
- D. Create an S3 event notification to an SQS Queue. Create a scheduled Lambda function that processes the queue, and generates and stores thumbnails.

Correct Answer: C

<https://docs.aws.amazon.com/lambda/latest/dg/with-s3-example.html>



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