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QUESTION 1

A developer at a company needs to create a small application that makes the same API call once each day at a designated time. The company does not have infrastructure in the AWS Cloud yet, but the company wants to implement this functionality on AWS.

Which solution meets these requirements in the MOST operationally efficient manner?

- A. Use a Kubernetes cron job that runs on Amazon Elastic Kubernetes Service (Amazon EKS)
- B. Use an Amazon Linux crontab scheduled job that runs on Amazon EC2
- C. Use an AWS Lambda function that is invoked by an Amazon EventBridge scheduled event.
- D. Use an AWS Batch job that is submitted to an AWS Batch job queue.

Correct Answer: C

This solution meets the requirements in the most operationally efficient manner because it does not require any infrastructure provisioning or management. The developer can create a Lambda function that makes the API call and configure

an EventBridge rule that triggers the function once a day at a designated time. This is a serverless solution that scales automatically and only charges for the execution time of the function.

Reference: [Using AWS Lambda with Amazon EventBridge], [Schedule Expressions for Rules]

QUESTION 2

A developer creates an AWS Lambda function that retrieves and groups data from several public API endpoints. The Lambda function has been updated and configured to connect to the private subnet of a VPC. An internet gateway is attached to the VPC. The VPC uses the default network ACL and security group configurations.

The developer finds that the Lambda function can no longer access the public API. The developer has ensured that the public API is accessible, but the Lambda function cannot connect to the API.

How should the developer fix the connection issue?

- A. Ensure that the network ACL allows outbound traffic to the public internet.
- B. Ensure that the security group allows outbound traffic to the public internet.
- C. Ensure that outbound traffic from the private subnet is routed to a public NAT gateway.
- D. Ensure that outbound traffic from the private subnet is routed to a new internet gateway.

Correct Answer: C

QUESTION 3



A developer has created a data collection application that uses Amazon API Gateway, AWS Lambda, and Amazon S3. The application's users periodically upload data files and wait for the validation status to be reflected on a processing dashboard. The validation process is complex and time-consuming for large files.

Some users are uploading dozens of large files and have to wait and refresh the processing dashboard to see if the files have been validated. The developer must refactor the application to immediately update the validation result on the user's dashboard without reloading the full dashboard.

What is the MOST operationally efficient solution that meets these requirements?

- A. Integrate the client with an API Gateway WebSocket API. Save the user-uploaded files with the WebSocket connection ID. Push the validation status to the connection ID when the processing is complete to initiate an update of the user interface.
- B. Launch an Amazon EC2 micro instance, and set up a WebSocket server. Send the user-uploaded file and user detail to the EC2 instance after the user uploads the file. Use the WebSocket server to send updates to the user interface when the uploaded file is processed.
- C. Save the user's email address along with the user-uploaded file. When the validation process is complete, send an email notification through Amazon Simple Notification Service (Amazon SNS) to the user who uploaded the file.
- D. Save the user-uploaded file and user detail to Amazon DynamoDB. Use Amazon DynamoDB Streams with Amazon Simple Notification Service (Amazon SNS) push notifications to send updates to the browser to update the user interface.

Correct Answer: A

QUESTION 4

A company runs a batch processing application by using AWS Lambda functions and Amazon API Gateway APIs with deployment stages for development, user acceptance testing and production. A development team needs to configure the APIs in the deployment stages to connect to third-party service endpoints.

Which solution will meet this requirement?

- A. Store the third-party service endpoints in Lambda layers that correspond to the stage
- B. Store the third-party service endpoints in API Gateway stage variables that correspond to the stage
- C. Encode the third-party service endpoints as query parameters in the API Gateway request URL.
- D. Store the third-party service endpoint for each environment in AWS AppConfig

Correct Answer: B

API Gateway stage variables are name-value pairs that can be defined as configuration attributes associated with a deployment stage of a REST API. They act like environment variables and can be used in the API setup and mapping templates. For example, the development team can define a stage variable named endpoint and assign it different values for each stage, such as dev.example.com for development, uat.example.com for user acceptance testing, and prod.example.com for production. Then, the team can use the stage variable value in the integration request URL, such as `http://$ { stageVariables.endpoint }/api`. This way, the team can use the same API setup with different endpoints at each stage by resetting the stage variable value. The other solutions are either not feasible or not cost-effective. Lambda layers are used to package and load dependencies for Lambda functions, not for storing endpoints. Encoding the endpoints as query parameters would expose them to the public and make the request URL unnecessarily long. Storing the endpoints in AWS AppConfig would incur additional costs and complexity, and would require additional logic.



to retrieve the values from the configuration store. References Using Amazon API Gateway stage variables Setting up stage variables for a REST API deployment Setting stage variables using the Amazon API Gateway console

QUESTION 5

A developer is writing a web application that is deployed on Amazon EC2 instances behind an internet-facing Application Load Balancer (ALB). The developer must add an Amazon CloudFront distribution in front of the ALB. The developer also must ensure that customer data from outside the VPC is encrypted in transit.

Which combination of CloudFront configuration settings should the developer use to meet these requirements? (Choose two.)

- A. Restrict viewer access by using signed URLs.
- B. Set the Origin Protocol Policy setting to Match Viewer.
- C. Enable field-level encryption.
- D. Enable automatic object compression.
- E. Set the Viewer Protocol Policy setting to Redirect HTTP to HTTPS.

Correct Answer: BE

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