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AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A company is building a RESTful serverless web application on AWS by using Amazon API Gateway and AWS Lambda. The users of this web application will be geographically distributed, and the company wants to reduce the latency of API requests to these users.

Which type of endpoint should a solutions architect use to meet these requirements?

- A. Private endpoint
- B. Regional endpoint
- C. Interface VPC endpoint
- D. Edge-optimized endpoint

Correct Answer: D

API Gateway - Endpoint Types ? Edge-Optimized (default): For global clients ? Requests are routed through the CloudFront Edge locations (improves latency) ? The API Gateway still lives in only one region ? Regional: ? For clients within the same region ? Could manually combine with CloudFront (more control over the caching strategies and the distribution) ? Private: ? Can only be accessed from your VPC using an interface VPC endpoint (ENI) ? Use a resource policy to define access

QUESTION 2

A solutions architect needs to connect a company's corporate network to its VPC to allow on-premises access to its AWS resources. The solution must provide encryption of all traffic between the corporate network and the VPC at the network layer and the session layer. The solution also must provide security controls to prevent unrestricted access between AWS and the on-premises systems.

Which solution meets these requirements?

- A. Configure AWS Direct Connect to connect to the VPC. Configure the VPC route tables to allow and deny traffic between AWS and on premises as required.
- B. Create an IAM policy to allow access to the AWS Management Console only from a defined set of corporate IP addresses. Restrict user access based on job responsibility by using an IAM policy and roles.
- C. Configure AWS Site-to-Site VPN to connect to the VPC. Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.
- D. Configure AWS Transit Gateway to connect to the VPC. Configure route table entries to direct traffic from on premises to the VPC. Configure instance security groups and network ACLs to allow only required traffic from on premises.

Correct Answer: C

QUESTION 3

A company wants to give a customer the ability to use on-premises Microsoft Active Directory to download files that are



stored in Amazon S3. The customer's application uses an SFTP client to download the files.

Which solution will meet these requirements with the LEAST operational overhead and no changes to the customer's application?

- A. Set up AWS Transfer Family with SFTP for Amazon S3. Configure integrated Active Directory authentication.
- B. Set up AWS Database Migration Service (AWS DMS) to synchronize the on-premises client with Amazon S3. Configure integrated Active Directory authentication.
- C. Set up AWS DataSync to synchronize between the on-premises location and the S3 location by using AWS IAM Identity Center (AWS Single Sign-On).
- D. Set up a Windows Amazon EC2 instance with SFTP to connect the on-premises client with Amazon S3. Integrate AWS Identity and Access Management (IAM).

Correct Answer: A

using AWS Batch to LEAST operational overhead and have SFTP to no changes to the customer's application
<https://aws.amazon.com/vi/blogs/architecture/managed-file-transfer-using-aws-transfer-family-and-amazon-s3/>

QUESTION 4

A company is building an ecommerce web application on AWS. The application sends information about new orders to an Amazon API Gateway REST API to process. The company wants to ensure that orders are processed in the order that they are received.

Which solution will meet these requirements?

- A. Use an API Gateway integration to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic when the application receives an order. Subscribe an AWS Lambda function to the topic to perform processing.
- B. Use an API Gateway integration to send a message to an Amazon Simple Queue Service (Amazon SQS) FIFO queue when the application receives an order. Configure the SQS FIFO queue to invoke an AWS Lambda function for processing.
- C. Use an API Gateway authorizer to block any requests while the application processes an order.
- D. Use an API Gateway integration to send a message to an Amazon Simple Queue Service (Amazon SQS) standard queue when the application receives an order. Configure the SQS standard queue to invoke an AWS Lambda function for processing.

Correct Answer: B

Using an API Gateway integration to send a message to an Amazon SQS FIFO queue is the recommended solution. FIFO queues in Amazon SQS guarantee the order of message delivery, ensuring that orders are processed in the order they are received. By configuring the SQS FIFO queue to invoke an AWS Lambda function for processing, the application can process the orders sequentially while maintaining the order in which they were received.

QUESTION 5

A company has created a multi-tier application for its ecommerce website. The website uses an Application Load Balancer that resides in the public subnets, a web tier in the public subnets, and a MySQL cluster hosted on Amazon



EC2 instances in the private subnets. The MySQL database needs to retrieve product catalog and pricing information that is hosted on the internet by a third-party provider. A solutions architect must devise a strategy that maximizes security without increasing operational overhead.

What should the solutions architect do to meet these requirements?

- A. Deploy a NAT instance in the VPC. Route all the internet-based traffic through the NAT instance.
- B. Deploy a NAT gateway in the public subnets. Modify the private subnet route table to direct all internet-bound traffic to the NAT gateway.
- C. Configure an internet gateway and attach it to the VPC. Modify the private subnet route table to direct internet-bound traffic to the internet gateway.
- D. Configure a virtual private gateway and attach it to the VPC. Modify the private subnet route table to direct internet-bound traffic to the virtual private gateway.

Correct Answer: B

NAT Gateway is safe

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