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**QUESTION 1**

A company is using AWS to design a web application that will process insurance quotes. Users will request quotes from the application. Quotes must be separated by quote type, must be responded to within 24 hours, and must not get lost. The solution must maximize operational efficiency and must minimize maintenance.

Which solution meets these requirements?

- A. Create multiple Amazon Kinesis data streams based on the quote type. Configure the web application to send messages to the proper data stream. Configure each backend group of application servers to pool messages from its own data stream using the Kinesis Client Library (KCL).
- B. Create multiple Amazon Simple Notification Service (Amazon SNS) topics and register Amazon SQS queues to their own SNS topic based on the quote type. Configure the web application to publish messages to the SNS topic queue. Configure each backend application server to work its own SQS queue.
- C. Create a single Amazon Simple Notification Service (Amazon SNS) topic and subscribe the Amazon SQS queues to the SNS topic. Configure SNS message filtering to publish messages to the proper SQS queue based on the quote type. Configure each backend application server to work its own SQS queue.
- D. Create multiple Amazon Kinesis Data Firehose delivery streams based on the quote type to deliver data streams to an Amazon Elasticsearch Service (Amazon ES) cluster. Configure the web application to send messages to the proper delivery stream. Configure each backend group of application servers to search for the messages from Amazon ES and process them accordingly.

Correct Answer: C

QUESTION 2

A company has deployed an API in a VPC behind an internet-facing Application Load Balancer (ALB). An application that consumes the API as a client is deployed in a second account in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. A solutions architect has configured the ALB to be internal.

Which combination of architectural changes will reduce the NAT gateway costs? (Select TWO)

- A. Configure a VPC peering connection between the two VPCs. Access the API using the private address.
- B. Configure an AWS Direct Connect connection between the two VPCs. Access the API using the private address.
- C. Configure a ClassicLink connection for the API into the client VPC. Access the API using the ClassicLink address.
- D. Configure a PrivateLink connection for the API into the client VPC. Access the API using the PrivateLink address.
- E. Configure an AWS Resource Access Manager connection between the two accounts. Access the API using the private address.

Correct Answer: DE

**QUESTION 3**

A solutions architect is designing the cloud architecture for a new application being deployed to AWS. The application allows users to interactively download and upload files. Files older than 2 years will be accessed less frequently. The

solutions architect needs to ensure that the application can scale to any number of files while maintaining high availability and durability.

Which scalable solutions should the solutions architect recommend? (Choose two.)

- A. Store the files on Amazon S3 with a lifecycle policy that moves objects older than 2 years to S3 Glacier.
- B. Store the files on Amazon S3 with a lifecycle policy that moves objects older than 2 years to S3 Standard-Infrequent Access (S3 Standard-IA)
- C. Store the files on Amazon Elastic File System (Amazon EFS) with a lifecycle policy that moves objects older than 2 years to EFS Infrequent Access (EFS IA).
- D. Store the files in Amazon Elastic Block Store (Amazon EBS) volumes. Schedule snapshots of the volumes. Use the snapshots to archive data older than 2 years.
- E. Store the files in RAID-striped Amazon Elastic Block Store (Amazon EBS) volumes. Schedule snapshots of the volumes. Use the snapshots to archive data older than 2 years.

Correct Answer: AC

QUESTION 4

A company recently launched a new service that involves medical images. The company scans the images and sends them from its on-premises data center through an AWS Direct Connect connection to Amazon EC2 instances. After processing is complete, the images are stored in an Amazon S3 bucket.

A company requirement states that the EC2 instances cannot be accessible through the internet. The EC2 instances run in a private subnet, which has a default route back to the on-premises data center for outbound internet access.

Usage of the new service is increasing rapidly. A solutions architect must recommend a solution that meets the company's requirements and reduces the Direct Connect charges.

Which solution accomplishes these goals MOST cost-effectively?

- A. Configure a VPC endpoint for Amazon S3. Add an entry to the private subnet's route table for the S3 endpoint.
- B. Configure a NAT gateway in a public subnet. Configure the private subnet's route table to use the NAT gateway.
- C. Configure Amazon S3 as a file system mount point on the EC2 instances. Access Amazon S3 through the mount.
- D. Move the EC2 instances into a public subnet. Configure the public subnet route table to point to an internet gateway.

Correct Answer: B

**QUESTION 5**

A company is running a critical business application on Amazon EC2 instances behind an Application Load Balancer. The EC2 instances run in an Auto Scaling group and access an Amazon RDS DB instance. The design did not pass an operational review because the EC2 instances and the DB instance are all located in a single Availability Zone. A solutions architect must update the design to use a second Availability Zone. Which solution will make the application highly available?

- A. Provision a subnet in each Availability Zone. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance with connections to each network.
- B. Provision two subnets that extend across both Availability Zones. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance with connections to each network.
- C. Provision a subnet in each Availability Zone. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance for Multi-AZ deployment.
- D. Provision a subnet that extends across both Availability Zones. Configure the Auto Scaling group to distribute the EC2 instances across both Availability Zones. Configure the DB instance for Multi-AZ deployment.

Correct Answer: C

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