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### **QUESTION 406**

A company has a data ingestion workflow that consists the following:

- An Amazon Simple Notification Service (Amazon SNS) topic for notifications about new data deliveries
- An AWS Lambda function to process the data and record metadata

The company observes that the ingestion workflow fails occasionally because of network connectivity issues. When such a failure occurs, the Lambda function does not ingest the corresponding data unless the company manually reruns the job.

Which combination of actions should a solutions architect take to ensure that the Lambda function ingests all data in the future? (Select TWO.)

- A. Configure the Lambda function In multiple Availability Zones.
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue, and subscribe It to me SNS topic.
- C. Increase the CPU and memory that are allocated to the Lambda function.
- D. Increase provisioned throughput for the Lambda function.
- E. Modify the Lambda function to read from an Amazon Simple Queue Service (Amazon SQS) queue.

**Correct Answer: C**

### **QUESTION 407**

A company currently operates a web application backed by an Amazon RDS MySQL database. It has automated backups that are run daily and are not encrypted. A security audit requires future backups to be encrypted and the unencrypted backups to be destroyed. The company will make at least one encrypted backup before destroying the old backups. What should be done to enable encryption for future backups?

- A. Enable default encryption for the Amazon S3 bucket where backups are stored.
- B. Modify the backup section of the database configuration to toggle the Enable encryption check box.
- C. Create a snapshot of the database. Copy it to an encrypted snapshot. Restore the database from the encrypted snapshot.
- D. Enable an encrypted read replica on RDS for MySQL. Promote the encrypted read replica to primary. Remove the original database instance.

**Correct Answer: C**

### **QUESTION 408**

A company has media and application files that need to be shared internally. Users currently are authenticated using Active Directory and access files from a Microsoft Windows platform. The chief executive officer wants to keep the same user permissions, but wants the company to improve the process as the company is reaching its storage capacity limit. What should a solutions architect recommend?

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- A. Set up a corporate Amazon S3 bucket and move all media and application files.
- B. Configure Amazon FSx for Windows File Server and move all the media and application files.
- C. Configure Amazon Elastic File System (Amazon EFS) and move all media and application files.
- D. Set up Amazon EC2 on Windows, attach multiple Amazon Elastic Block Store (Amazon EBS) volumes, and move all media and application files.

**Correct Answer: B**

### **QUESTION 409**

A company has deployed an internal 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 VPC in a second account. The application is deployed in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. Which combination of architectural changes will reduce the NAT gateway costs? (Select TWO.)

- A. Configure a VPC peering connection between the two VPCs.
- B. Configure an AWS Direct Connect connection between the two VPCs.
- C. Replace the internet-facing ALB with an internal ALB. Access the API by using the ALB's private DNS address.
- D. Configure a ClassicLink connection for the API to the client VPC. Access the API by using the ClassicLink address.
- E. Configure an AWS Resource Access Manager connection between the two accounts. Access the API by using the ALB's private DNS address.

**Correct Answer: AE**

### **QUESTION 410**

A group requires permissions to list an Amazon S3 bucket and delete objects from that bucket. An administrator has created the following IAM1 policy to provide access to the bucket and applied that policy to the group. The group is not able to delete objects in the bucket. The company follows least-privilege access rules. Which statement should a solutions architect add to the policy to correct bucket access?

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": [
        "s3:ListBucket",
        "s3:DeleteObject"
      ],
      "Resource": [
        "arn:aws:s3:::bucket-name"
      ],
      "Effect": "Allow"
    }
  ]
}
```

- A. 

```
"Action": [
  "s3:*Object"
],
"Resource": [
  "arn:aws:s3:::bucket-name/*"
],
"Effect": "Allow"
```

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- B. 

```
"Action": [
    "s3:*"
],
"Resource": [
    "arn:aws:s3:::bucket-name/*"
],
"Effect": "Allow"
```
- C. 

```
"Action": [
    "s3:DeleteObject"
],
"Resource": [
    "arn:aws:s3:::bucket-name/*"
],
"Effect": "Allow"
```
- D. 

```
"Action": [
    "s3:DeleteObject"
],
"Resource": [
    "arn:aws:s3:::bucket-name*"
],
"Effect": "Allow"
```

**Correct Answer: C**

### QUESTION 411

A company experienced a breach that affected several applications in its on-premises data center. The attacker took advantage of vulnerabilities in the custom applications that were running on the servers. The company is now migrating its applications to run on Amazon EC2 instances. The company wants to implement a solution that actively scans for vulnerabilities on the EC2 instances and sends a report that details the findings. Which solution will meet these requirements?

- A. Deploy AWS Shield to scan the EC2 instances for vulnerabilities. Create an AWS Lambda function to log any findings to AWS CloudTrail.
- B. Deploy Amazon Macie and AWS Lambda functions to scan the EC2 instances for vulnerabilities. Log any findings to AWS CloudTrail.
- C. Turn on Amazon GuardDuty. Deploy the GuardDuty agents to the EC2 instances. Configure an AWS Lambda function to automate the generation and distribution of reports that detail the findings.
- D. Turn on Amazon Inspector. Deploy the Amazon Inspector agent to the EC2 instances. Configure an AWS Lambda function to automate the generation and distribution of reports that detail the findings.

**Correct Answer: D**

### QUESTION 412

A company wants to implement a disaster recovery plan for its primary on-premises file storage volume. The file storage volume is mounted from an Internet Small Computer Systems Interface (iSCSI) device on a local storage server. The file storage volume holds hundreds of terabytes (TB) of data. The company wants to ensure that end users retain immediate access to all file types from the on-premises systems without experiencing latency. Which solution will meet these requirements with the LEAST amount of change to the company's existing infrastructure?

- A. Provision an Amazon S3 File Gateway as a virtual machine (VM) that is hosted on premises. Set the local cache to 10 TB. Modify existing applications to access the files through the NFS protocol.

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To recover from a disaster, provision an Amazon EC2 instance and mount the S3 bucket that contains the files.

- B. Provision an AWS Storage Gateway tape gateway. Use a data backup solution to back up all existing data to a virtual tape library. Configure the data backup solution to run nightly after the initial backup is complete. To recover from a disaster, provision an Amazon EC2 instance and restore the data to an Amazon Elastic Block Store (Amazon EBS) volume from the volumes in the virtual tape library.
- C. Provision an AWS Storage Gateway Volume Gateway cached volume. Set the local cache to 10 TB. Mount the Volume Gateway cached volume to the existing file server by using iSCSI, and copy all files to the storage volume. Configure scheduled snapshots of the storage volume. To recover from a disaster, restore a snapshot to an Amazon Elastic Block Store (Amazon EBS) volume and attach the EBS volume to an Amazon EC2 instance.
- D. Provision an AWS Storage Gateway Volume Gateway stored volume with the same amount of disk space as the existing file storage volume. Mount the Volume Gateway stored volume to the existing file server by using iSCSI, and copy all files to the storage volume. Configure scheduled snapshots of the storage volume. To recover from a disaster, restore a snapshot to an Amazon Elastic Block Store (Amazon EBS) volume and attach the EBS volume to an Amazon EC2 instance.

**Correct Answer: C**

### **QUESTION 413**

A mobile gaming company runs application servers on Amazon EC2 instances. The servers receive updates from players every 15 minutes. The mobile game creates a JSON object of the progress made in the game since the last update and sends the JSON object to an Application Load Balancer. As the mobile game is played game updates are being lost. The company wants to create a durable way to get the updates in order. What should a solutions architect recommend to decouple the system?

- A. Use Amazon Kinesis Data Streams to capture the data and store the JSON object in Amazon S3
- B. Use Amazon Kinesis Data Firehose to capture the data and store the JSON object in Amazon S3
- C. Use Amazon Simple Queue Service (Amazon SQS) FIFO queues to capture the data and EC2 instances to process the messages in the queue
- D. Use Amazon Simple Notification Service (Amazon SNS) to capture the data and EC2 instances to process the messages sent to the Application Load Balancer

**Correct Answer: C**

### **QUESTION 414**

A company is using an Application Load Balancer (ALB) to present its application to the internet. The company finds abnormal traffic access patterns across the application. A solutions architect needs to improve visibility into the infrastructure to help the company understand these abnormalities better. What is the MOST operationally efficient solution that meets these requirements?

- A. Create a table in Amazon Athena for AWS CloudTrail logs. Create a query for the relevant information.
- B. Enable ALB access logging to Amazon S3. Create a table in Amazon Athena, and query the logs.
- C. Enable ALB access logging to Amazon S3. Open each file in a text editor, and search each line for the relevant information.
- D. Use Amazon EMR on a dedicated Amazon EC2 instance to directly query the ALB to acquire traffic access log information.

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**Correct Answer:** A

### **QUESTION 415**

A company allows users to upload and store photos through its website. The website has users from all around the world. All images that users upload are stored in a centralized Amazon S3 bucket. The company wants to increase the speed in which its entire user base can upload photos through the website. What should a solutions architect recommend to meet these requirements?

- A. Create an Amazon CloudFront distribution. Use the Amazon S3 Standard storage class to store files.
- B. Create an Amazon CloudFront distribution. Configure the distribution settings and origin.
- C. Configure S3 Transfer Acceleration on the S3 bucket. Use the standard S3 endpoint to upload files.
- D. Configure S3 Transfer Acceleration on the S3 bucket. Use the S3 Accelerate endpoint to upload files.

**Correct Answer:** D

### **QUESTION 416**

A company hosts an application used to upload files to an Amazon S3 bucket. Once uploaded, the files are processed to extract metadata which takes less than 5 seconds. The volume and frequency of the uploads varies from a few files each hour to hundreds of concurrent uploads. The company has asked a solutions architect to design a cost-effective architecture that will meet these requirements. What should the solutions architect recommend?

- A. Configure AWS CloudTrail trails to log S3 API calls. Use AWS AppSync to process the files.
- B. Configure an object-created event notification within the S3 bucket to invoke an AWS Lambda function to process the files.
- C. Configure Amazon Kinesis Data Streams to process and send data to Amazon S3. Invoke an AWS Lambda function to process the files.
- D. Configure an Amazon Simple Notification Service (Amazon SNS) topic to process the files uploaded to Amazon S3. Invoke an AWS Lambda function to process the files.

**Correct Answer:** B

### **QUESTION 417**

A company must save all the email messages that its employees send to customers for a period of 12 months. The messages are stored in a binary format and vary in size from 1 KB to 20 KB. The company has selected Amazon S3 as the storage service for the messages. Which combination of steps will meet these requirements MOST cost-effectively? (Select TWO.)

- A. Create an S3 bucket policy that denies the S3 Delete Object action.
- B. Create an S3 lifecycle configuration that deletes the messages after 12 months.
- C. Upload the messages to Amazon S3. Use S3 Object Lock in governance mode.
- D. Upload the messages to Amazon S3. Use S3 Object Lock in compliance mode.
- E. Use S3 Inventory. Create an AWS Batch job that periodically scans the inventory and deletes the messages after 12 months.

**Correct Answer:** BD

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