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Amazon SAA-C03

AWS Certified Solutions Architect - Associate

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Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q59-Q64):

NEW QUESTION # 59

A company is looking for a solution that can store video archives in AWS from old news footage. The company needs to minimize costs and will rarely need to restore these files. When the files are needed, they must be available in a maximum of five minutes. What is the MOST cost-effective solution?

- A. Store the video archives in Amazon S3 Glacier and use Standard retrievals.
- B. Store the video archives in Amazon S3 Standard-Infrequent Access (S3 Standard-IA).
- C. Store the video archives in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA)
- **D. Store the video archives in Amazon S3 Glacier and use Expedited retrievals.**

Answer: D

Explanation:

Amazon S3 Glacier is a storage class that provides secure, durable, and extremely low-cost storage for data archiving and long-term backup. It is designed for data that is rarely accessed and for which retrieval times of several hours are suitable¹. By storing the video archives in Amazon S3 Glacier, the solution can minimize costs.

Amazon S3 Glacier offers three options for data retrieval: Expedited, Standard, and Bulk. Expedited retrievals typically return data in 1-5 minutes and are suitable for Active Archive use cases. Standard retrievals typically complete within 3-5 hours and are suitable for less urgent needs. Bulk retrievals typically complete within 5-12 hours and are the lowest-cost retrieval option². By using Expedited retrievals, the solution can meet the requirement of restoring the files in a maximum of five minutes.

b) Store the video archives in Amazon S3 Glacier and use Standard retrievals. This solution will not meet the requirement of restoring the files in a maximum of five minutes, as Standard retrievals typically complete within 3-5 hours.

c) Store the video archives in Amazon S3 Standard-Infrequent Access (S3 Standard-IA). This solution will not meet the requirement of minimizing costs, as S3 Standard-IA is a storage class that provides low-cost storage for data that is accessed less frequently but requires rapid access when needed. It has a higher storage cost than S3 Glacier.

d) Store the video archives in Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA). This solution will not meet the requirement of minimizing costs, as S3 One Zone-IA is a storage class that provides low-cost storage for data that is accessed less frequently but requires rapid access when needed. It has a higher storage cost than S3 Glacier.

Reference URL: <https://aws.amazon.com/s3/glacier/>

NEW QUESTION # 60

An ecommerce company stores terabytes of customer data in the AWS Cloud. The data contains personally identifiable information (PII). The company wants to use the data in three applications. Only one of the applications needs to process the PII. The PII must be removed before the other two applications process the data.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Process the data and store the transformed data in three separate Amazon S3 buckets so that each application has its own custom dataset. Point each application to its respective S3 bucket.
- B. Process the data and store the transformed data in three separate Amazon DynamoDB tables so that each application has its own custom dataset. Point each application to its respective DynamoDB table.
- **C. Store the data in an Amazon S3 bucket. Process and transform the data by using S3 Object Lambda before returning the data to the requesting application.**
- D. Store the data in an Amazon DynamoDB table. Create a proxy application layer to intercept and process the data that each application requests.

Answer: C

Explanation:

<https://aws.amazon.com/blogs/aws/introducing-amazon-s3-object-lambda-use-your-code-to-process-data-as-it-is> S3 Object Lambda is a new feature of Amazon S3 that enables customers to add their own code to process data retrieved from S3 before returning it to the application. By using S3 Object Lambda, the data can be processed and transformed in real-time, without the need to store multiple copies of the data in separate S3 buckets or DynamoDB tables.

In this case, the PII can be removed from the data by the code added to S3 Object Lambda before returning the data to the two applications that do not need to process PII. The one application that requires PII can be pointed to the original S3 bucket where the PII is still stored.

Using S3 Object Lambda is the simplest and most cost-effective solution, as it eliminates the need to maintain multiple copies of the same data in different buckets or tables, which can result in additional storage costs and operational overhead.

NEW QUESTION # 61

A Solutions Architect working for a startup is designing a High Performance Computing (HPC) application which is publicly accessible for their customers. The startup founders want to mitigate distributed denial-of-service (DDoS) attacks on their application.

Which of the following options are not suitable to be implemented in this scenario? (Select TWO.)

- A. Use Dedicated EC2 instances to ensure that each instance has the maximum performance possible.
- B. Use an Application Load Balancer with Auto Scaling groups for your EC2 instances. Prevent direct Internet traffic to your Amazon RDS database by deploying it to a new private subnet.
- C. Add multiple Elastic Fabric Adapters (EFA) to each EC2 instance to increase the network bandwidth.
- D. Use AWS Shield and AWS WAF.
- E. Use an Amazon CloudFront service for distributing both static and dynamic content.

Answer: A,C

Explanation:

Take note that the question asks about the viable mitigation techniques that are NOT suitable to prevent Distributed Denial of Service (DDoS) attack.

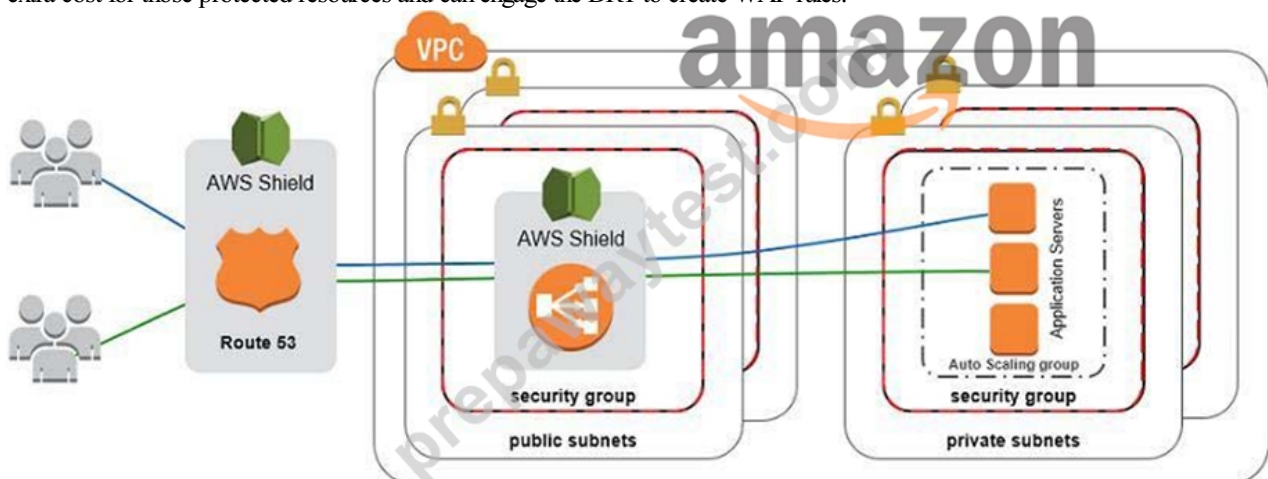
A Denial of Service (DoS) attack is an attack that can make your website or application unavailable to end users. To achieve this, attackers use a variety of techniques that consume network or other resources, disrupting access for legitimate end users.

To protect your system from DDoS attack, you can do the following:

- Use an Amazon CloudFront service for distributing both static and dynamic content.
- Use an Application Load Balancer with Auto Scaling groups for your EC2 instances then restrict direct Internet traffic to your Amazon RDS database by deploying to a private subnet.
- Set up alerts in Amazon CloudWatch to look for high Network In and CPU utilization metrics. Services that are available within AWS Regions, like Elastic Load Balancing and Amazon Elastic Compute Cloud (EC2), allow you to build Distributed Denial of Service resiliency and scale to handle unexpected volumes of traffic within a given region. Services that are available in AWS edge locations, like Amazon CloudFront, AWS WAF, Amazon Route53, and Amazon API Gateway, allow you to take advantage of a global network of edge locations that can provide your application with greater fault tolerance and increased scale for managing larger volumes of traffic.

In addition, you can also use AWS Shield and AWS WAF to fortify your cloud network. AWS Shield is a managed DDoS protection service that is available in two tiers: Standard and Advanced. AWS Shield Standard applies always-on detection and inline mitigation techniques, such as deterministic packet filtering and priority-based traffic shaping, to minimize application downtime and latency.

AWS WAF is a web application firewall that helps protect web applications from common web exploits that could affect application availability, compromise security, or consume excessive resources. You can use AWS WAF to define customizable web security rules that control which traffic accesses your web applications. If you use AWS Shield Advanced, you can use AWS WAF at no extra cost for those protected resources and can engage the DRT to create WAF rules.



Using Dedicated EC2 instances to ensure that each instance has the maximum performance possible is not a viable mitigation technique because Dedicated EC2 instances are just an instance billing option.

Although it may ensure that each instance gives the maximum performance, that by itself is not enough to mitigate a DDoS attack.

Adding multiple Elastic Fabric Adapters (EFA) to each EC2 instance to increase the network bandwidth is also not a viable option as this is mainly done for performance improvement, and not for DDoS attack mitigation. Moreover, you can attach only one EFA per EC2 instance. An Elastic Fabric Adapter (EFA) is a network device that you can attach to your Amazon EC2 instance to accelerate High-Performance Computing (HPC) and machine learning applications.

The following options are valid mitigation techniques that can be used to prevent DDoS:

- Use an Amazon CloudFront service for distributing both static and dynamic content.
- Use an Application Load Balancer with Auto Scaling groups for your EC2 instances. Prevent direct Internet traffic to your Amazon RDS database by deploying it to a new private subnet.
- Use AWS Shield and AWS WAF.

References:

<https://aws.amazon.com/answers/networking/aws-ddos-attack-mitigation/>

https://d0.awsstatic.com/whitepapers/DDoS_White_Paper_June2015.pdf

Best practices on DDoS Attack Mitigation:

<https://youtu.be/HnoZS5jj7pk/>

NEW QUESTION # 62

[Design Secure Architectures]

A company uses a legacy application to produce data in CSV format. The legacy application stores the output data in Amazon S3. The company is deploying a new commercial off-the-shelf (COTS) application that can perform complex SQL queries to analyze data that is stored in Amazon Redshift and Amazon S3 only. However, the COTS application cannot process the CSV files that the legacy application produces. The company cannot update the legacy application to produce data in another format. The company needs to implement a solution so that the COTS application can use the data that the legacy application produces.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Create an AWS Lambda function and an Amazon DynamoDB table. Use an S3 event to invoke the Lambda function. Configure the Lambda function to perform an extract, transform, and load (ETL) job to process the .csv files and store the processed data in the DynamoDB table.
- **B. Create an AWS Glue extract, transform, and load (ETL) job that runs on a schedule. Configure the ETL job to process the .csv files and store the processed data in Amazon Redshift.**
- C. Develop a Python script that runs on Amazon EC2 instances to convert the .csv files to SQL files. Invoke the Python script on a cron schedule to store the output files in Amazon S3.
- D. Use Amazon EventBridge (Amazon CloudWatch Events) to launch an Amazon EMR cluster on a weekly schedule. Configure the EMR cluster to perform an extract, transform, and load (ETL) job to process the .csv files and store the processed data in an Amazon Redshift table.

Answer: B

Explanation:

This solution meets the requirements of implementing a solution so that the COTS application can use the data that the legacy application produces with the least operational overhead. AWS Glue is a fully managed service that provides a serverless ETL platform to prepare and load data for analytics. AWS Glue can process data in various formats, including .csv files, and store the processed data in Amazon Redshift, which is a fully managed data warehouse service that supports complex SQL queries. AWS Glue can run ETL jobs on a schedule, which can automate the data processing and loading process.

Option B is incorrect because developing a Python script that runs on Amazon EC2 instances to convert the .csv files to SQL files can increase the operational overhead and complexity, and it may not provide consistent data processing and loading for the COTS application. Option C is incorrect because creating an AWS Lambda function and an Amazon DynamoDB table to process the .csv files and store the processed data in the DynamoDB table does not meet the requirement of using Amazon Redshift as the data source for the COTS application. Option D is incorrect because using Amazon EventBridge (Amazon CloudWatch Events) to launch an Amazon EMR cluster on a weekly schedule to process the .csv files and store the processed data in an Amazon Redshift table can increase the operational overhead and complexity, and it may not provide timely data processing and loading for the COTS application.

Reference:

<https://aws.amazon.com/glue/>

<https://aws.amazon.com/redshift/>

NEW QUESTION # 63

A company wants to analyze and generate reports to track the usage of its mobile app. The app is popular and has a global user base. The company uses a custom report building program to analyze application usage.

The program generates multiple reports during the last week of each month. The program takes less than 10 minutes to produce each report. The company rarely uses the program to generate reports outside of the last week of each month. The company wants to generate reports in the least amount of time when the reports are requested.

Which solution will meet these requirements MOST cost-effectively?

- A. Run the program in Amazon Elastic Container Service (Amazon ECS). Schedule Amazon ECS to run the program when reports are requested.
- **B. Run the program in AWS Lambda. Create an Amazon EventBridge rule to run a Lambda function when reports are requested.**
- C. Run the program by using Amazon EC2 Spot Instances. Create an Amazon EventBridge rule to start the EC2 instances when reports are requested. Run the EC2 instances continuously during the last week of each month.
- D. Run the program by using Amazon EC2 On-Demand Instances. Create an Amazon EventBridge rule to start the EC2 instances when reports are requested. Run the EC2 instances continuously during the last week of each month.

Answer: B

Explanation:

This solution meets the requirements most cost-effectively because it leverages the serverless and event-driven capabilities of AWS Lambda and Amazon EventBridge. AWS Lambda allows you to run code without provisioning or managing servers, and you pay only for the compute time you consume. Amazon EventBridge is a serverless event bus service that lets you connect your applications with data from various sources and routes that data to targets such as AWS Lambda. By using Amazon EventBridge, you can create a rule that triggers a Lambda function to run the program when reports are requested, and you can also schedule the rule to run during the last week of each month. This way, you can generate reports in the least amount of time and pay only for the resources you use.

References:

AWS Lambda



Amazon EventBridge

NEW QUESTION # 64

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