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AWS Certified Solutions Architect - Associate (SAA-C03)

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QUESTION 1

A financial company hosts a web application on AWS. The application uses an Amazon API Gateway Regional API endpoint to give users the ability to retrieve current stock prices. The company\\'s security team has noticed an increase in the number of API requests. The security team is concerned that HTTP flood attacks might take the application offline.

A solutions architect must design a solution to protect the application from this type of attack.

Which solution meats these requirements with the LEAST operational overhead?

A. Create an Amazon CloudFront distribution in front of the API Gateway Regional API endpoint with a maximum TTL of 24 hours

B. Create a Regional AWS WAF web ACL with a rate-based rule. Associate the web ACL with the API Gateway stage.

C. Use Amazon CloudWatch metrics to monitor the Count metric and alert the security team when the predefined rate is reached

D. Create an Amazon CloudFront distribution with Lambda@Edge in front of the API Gateway Regional API endpoint Create an AWS Lambda function to block requests from IP addresses that exceed the predefined rate.

Correct Answer: B

A rate-based rule in AWS WAF allows the security team to configure thresholds that trigger rate-based rules, which enable AWS WAF to track the rate of requests for a specified time period and then block them automatically when the threshold is exceeded. This provides the ability to prevent HTTP flood attacks with minimal operational overhead.

QUESTION 2

A company selves a dynamic website from a flee! of Amazon EC2 instances behind an Application Load Balancer (ALB) The website needs to support multiple languages to serve customers around the world The website\\'s architecture is running in the us-west-1 Region and is exhibiting high request latency tor users that are located in other parts of the world

The website needs to serve requests quickly and efficiently regardless of a user\\'s location However the company does not want to recreate the existing architecture across multiple Regions

What should a solutions architect do to meet these requirements?

A. Replace the existing architecture with a website that is served from an Amazon S3 bucket Configure an Amazon CloudFront distribution with the S3 bucket as the origin Set the cache behavior settings to cache based on the Accept-Language request header

B. Configure an Amazon CloudFront distribution with the ALB as the origin Set the cache behavior settings to cache based on the Accept-Language request header

C. Create an Amazon API Gateway API that is integrated with the ALB Configure the API to use the HTTP integration type Set up an API Gateway stage to enable the API cache based on the Accept-Language request header

D. Launch an EC2 instance in each additional Region and configure NGINX to act as a cache server for that Region Put all the EC2 instances and the ALB behind an Amazon Route 53 record set with a geolocation routing policy

Correct Answer: B

https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/header-caching.html

QUESTION 3

A company needs to store data from its healthcare application. The application\\\'s data frequently changes. A new regulation requires audit access at all levels of the stored data.

The company hosts the application on an on-premises infrastructure that is running out of storage capacity. A solutions architect must securely migrate the existing data to AWS while satisfying the new regulation.

Which solution will meet these requirements?

A. Use AWS DataSync to move the existing data to Amazon S3. Use AWS CloudTrail to log data events.

B. Use AWS Snowcone to move the existing data to Amazon S3. Use AWS CloudTrail to log management events.

C. Use Amazon S3 Transfer Acceleration to move the existing data to Amazon S3. Use AWS CloudTrail to log data events.

D. Use AWS Storage Gateway to move the existing data to Amazon S3. Use AWS CloudTrail to log management events.

Correct Answer: A

AWS DataSync is a service designed specifically for securely and efficiently transferring large amounts of data between on-premises storage systems and AWS services like Amazon S3. It provides a reliable and optimized way to migrate data while maintaining data integrity.

AWS CloudTrail, on the other hand, is a service that logs and monitors management events in your AWS account. While it can capture data events for certain services, its primary focus is on tracking management actions like API calls and configuration changes.

Therefore, using AWS DataSync to transfer the existing data to Amazon S3 and leveraging AWS CloudTrail to log data events aligns with the requirement of securely migrating the data and ensuring audit access at all levels, as specified by the new regulation.

QUESTION 4

A company wants to securely exchange data between its software as a service (SaaS) application Salesforce account and Amazon S3. The company must encrypt the data at rest by using AWS Key Management Service (AWS KMS) customer managed keys (CMKs). The company must also encrypt the data in transit. The company has enabled API access for the Salesforce account.

A. Create AWS Lambda functions to transfer the data securely from Salesforce to Amazon S3.

B. Create an AWS Step Functions workflow. Define the task to transfer the data securely from Salesforce to Amazon S3.

C. Create Amazon AppFlow flows to transfer the data securely from Salesforce to Amazon S3.

D. Create a custom connector for Salesforce to transfer the data securely from Salesforce to Amazon S3.

Correct Answer: C

Amazon AppFlow is a fully managed integration service that allows you to securely transfer data between different SaaS applications and AWS services. It provides built-in encryption options and supports encryption in transit using SSL/TLS protocols. With AppFlow, you can configure the data transfer flow from Salesforce to Amazon S3, ensuring data encryption at rest by utilizing AWS KMS CMKs.

QUESTION 5

A data analytics company has 80 offices that are distributed globally. Each office hosts 1 PB of data and has between 1 and 2 Gbps of internet bandwidth.

The company needs to perform a one-time migration of a large amount of data from its offices to Amazon S3. The company must complete the migration within 4 weeks.

Which solution will meet these requirements MOST cost-effectively?

A. Establish a new 10 Gbps AWS Direct Connect connection to each office. Transfer the data to Amazon S3.

B. Use multiple AWS Snowball Edge storage-optimized devices to store and transfer the data to Amazon S3.

C. Use an AWS Snowmobile to store and transfer the data to Amazon S3.

D. Set up an AWS Storage Gateway Volume Gateway to transfer the data to Amazon S3.

Correct Answer: B

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