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Amazon SAA-C03 (Amazon AWS Certified Solutions Architect - Associate) certification exam is designed for IT professionals who want to demonstrate their expertise in designing and deploying scalable, highly available, and fault-tolerant systems on the Amazon Web Services (AWS) platform. The SAA-C03 exam is the latest version of the AWS Certified Solutions Architect - Associate certification and it covers the latest AWS services and best practices. SAA-C03 Exam is intended for professionals who have at least one year of experience in designing and deploying AWS-based applications.

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SAA-C03 Test Questions Answers - Exam SAA-C03 Prep

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Amazon SAA-C03 certification is a valuable credential that demonstrates an individual's expertise in designing and deploying scalable, highly available, and fault-tolerant systems on AWS. Achieving this certification can help professionals advance their careers in cloud computing and increase their earning potential. Additionally, it can also help organizations identify qualified professionals who can help them design and deploy cloud-based solutions on AWS.

Amazon SAA-C03 Certification Exam is a valuable certification for individuals who want to advance their careers in cloud computing. AWS Certified Solutions Architect - Associate certification is recognized by many organizations, and individuals who

hold the certification are in high demand. Additionally, the certification provides individuals with the opportunity to expand their knowledge of AWS services and become experts in cloud computing.

Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q499-Q504):

NEW QUESTION # 499

A company's web application consists of multiple Amazon EC2 instances that run behind an Application Load Balancer in a VPC. An Amazon RDS for MySQL DB instance contains the data. The company needs the ability to automatically detect and respond to suspicious or unexpected behavior in its AWS environment. The company already has added AWS WAF to its architecture. What should a solutions architect do next to protect against threats?

- **A. Use Amazon GuardDuty to perform threat detection. Configure Amazon EventBridge to filter for GuardDuty findings and to invoke an AWS Lambda function to adjust the AWS WAF rules.**
- B. Use AWS Firewall Manager to perform threat detection. Configure Amazon EventBridge to filter for Firewall Manager findings and to invoke an AWS Lambda function to adjust the AWS WAF web ACL.
- C. Use Amazon Inspector to perform threat detection and to update the AWS WAF rules. Create a VPC network ACL to limit access to the web application.
- D. Use Amazon Macie to perform threat detection and to update the AWS WAF rules. Create a VPC network ACL to limit access to the web application.

Answer: A

Explanation:

* Understanding the Requirement: The company needs to automatically detect and respond to suspicious or unexpected behavior in its AWS environment, beyond the existing AWS WAF setup.

* Analysis of Options:

* Amazon GuardDuty: Provides continuous monitoring and threat detection across AWS accounts and resources, including integration with AWS WAF for automated response.

* AWS Firewall Manager: Manages firewall rules across multiple accounts but is more focused on central management than threat detection.

* Amazon Inspector: Focuses on security assessments and vulnerability management rather than real-time threat detection.

* Amazon Macie: Primarily used for data security and privacy, not comprehensive threat detection.

* Best Solution:

* Amazon GuardDuty with EventBridge and Lambda: This combination ensures continuous threat detection and automated response by updating AWS WAF rules based on GuardDuty findings.

References:

* Amazon GuardDuty

* Amazon EventBridge

* AWS Lambda

NEW QUESTION # 500

[Design Secure Architectures]

A company is designing an application on AWS that processes sensitive data. The application stores and processes financial data for multiple customers.

To meet compliance requirements, the data for each customer must be encrypted separately at rest by using a secure, centralized key management solution. The company wants to use AWS Key Management Service (AWS KMS) to implement encryption.

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

- A. Create a single AWS KMS key to encrypt all sensitive data across the application.
- B. Generate a unique encryption key for each customer. Store the keys in an Amazon S3 bucket. Enable server-side encryption.
- **C. Create separate AWS KMS keys for each customer's data that have granular access control and logging enabled.**
- D. Deploy a hardware security appliance in the AWS environment that securely stores customer-provided encryption keys. Integrate the security appliance with AWS KMS to encrypt the sensitive data in the application.

Answer: C

Explanation:

This solution meets the requirement of encrypting each customer's data separately with the least operational overhead by leveraging

AWS Key Management Service (KMS).

Separate AWS KMS Keys: By creating separate KMS keys for each customer, you can ensure that each customer's data is encrypted with a unique key. This approach satisfies the compliance requirement for separate encryption and provides fine-grained control over access to the keys.

Granular Access Control: AWS KMS allows you to define key policies and use IAM policies to grant specific permissions to the keys. This ensures that only authorized users or services can access the keys, thereby maintaining the principle of least privilege.

Logging and Monitoring: AWS KMS integrates with AWS CloudTrail, which logs all key usage and management activities. This provides an audit trail that is essential for meeting compliance requirements.

Why Not Other Options?:

Option A (Store keys in S3): Storing keys in S3 is not recommended because it does not provide the same level of security, access control, or integration with AWS services as KMS does.

Option B (Hardware security appliance): Deploying a hardware security appliance adds significant operational overhead and complexity, which is unnecessary given that KMS already provides a secure and centralized key management solution.

Option C (Single KMS key for all data): Using a single KMS key does not meet the requirement of encrypting each customer's data separately.

AWS Reference:

AWS Key Management Service (KMS)- Overview of KMS, its features, and best practices for key management.

Using AWS KMS for Multi-Tenant Applications- Guidance on how to design applications using KMS for multi-tenancy.

NEW QUESTION # 501

A company collects temperature, humidity, and atmospheric pressure data in cities across multiple continents.

The average volume of data collected per site each day is 500 GB. Each site has a high-speed internet connection. The company's weather forecasting applications are based in a single Region and analyze the data daily.

What is the FASTEST way to aggregate data from all of these global sites?

- A. Upload site data to an Amazon S3 bucket in the closest AWS Region. Use S3 cross-Region replication to copy objects to the destination bucket.
- B. Schedule AWS Snowball jobs daily to transfer data to the closest AWS Region. Use S3 cross-Region replication to copy objects to the destination bucket.
- C. Upload the data to an Amazon EC2 instance in the closest Region. Store the data in an Amazon Elastic Block Store (Amazon EBS) volume. Once a day take an EBS snapshot and copy it to the centralized Region. Restore the EBS volume in the centralized Region and run an analysis on the data daily.
- **D. Enable Amazon S3 Transfer Acceleration on the destination bucket. Use multipart uploads to directly upload site data to the destination bucket.**

Answer: D

Explanation:

Explanation

You might want to use Transfer Acceleration on a bucket for various reasons, including the following:

You have customers that upload to a centralized bucket from all over the world.

You transfer gigabytes to terabytes of data on a regular basis across continents.

You are unable to utilize all of your available bandwidth over the Internet when uploading to Amazon S3.

<https://docs.aws.amazon.com/AmazonS3/latest/dev/transfer-acceleration.html>

[https://aws.amazon.com/s3/transfer-acceleration/#:~:text=S3%20Transfer%20Acceleration%20\(S3TA\)%20reduce](https://aws.amazon.com/s3/transfer-acceleration/#:~:text=S3%20Transfer%20Acceleration%20(S3TA)%20reduce)

"Amazon S3 Transfer Acceleration can speed up content transfers to and from Amazon S3 by as much as

50-500% for long-distance transfer of larger objects. Customers who have either web or mobile applications with widespread users or applications hosted far away from their S3 bucket can experience long and variable upload and download speeds over the Internet"

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/mpuoverview.html>

"Improved throughput - You can upload parts in parallel to improve throughput."

NEW QUESTION # 502

A security team needs to enforce rotation of all IAM users' access keys every 90 days. Keys older than 90 days must be

automatically deactivated and removed. A solutions architect must create a remediation solution with minimal operational effort.

Which solution meets these requirements?

- A. Create an AWS Config rule to check key age. Configure the rule to run an AWS Batch job to remove the key.

- B. Create an EventBridge rule to check key age. Define a second EventBridge rule to run an AWS Batch job to remove the key.
- C. Create an Amazon EventBridge rule to check key age. Configure it to run an AWS Batch job to remove the key.
- **D. Create an AWS Config rule to check key age. Define an EventBridge rule that schedules an AWS Lambda function to remove the key.**

Answer: D

Explanation:

AWS Config has a built-in managed rule (access-keys-rotated) that evaluates IAM access key age. Config rules detect non-compliant resources automatically, without building custom logic.

After Config identifies old keys, EventBridge can trigger an AWS Lambda function to disable and delete the keys. Lambda provides a fully managed compute layer requiring no servers or batch environments.

NEW QUESTION # 503

[Design Resilient Architectures]

A company has a Windows-based application that must be migrated to AWS. The application requires the use of a shared Windows file system attached to multiple Amazon EC2 Windows instances that are deployed across multiple Availability Zones. What should a solutions architect do to meet this requirement?

- **A. Configure Amazon FSx for Windows File Server. Mount the Amazon FSx file system to each Windows instance.**
- B. Configure a file system by using Amazon Elastic File System (Amazon EFS). Mount the EFS file system to each Windows instance.
- C. Configure AWS Storage Gateway in volume gateway mode. Mount the volume to each Windows instance.
- D. Configure an Amazon Elastic Block Store (Amazon EBS) volume with the required size. Attach each EC2 instance to the volume. Mount the file system within the volume to each Windows instance.

Answer: A

Explanation:

This solution meets the requirement of migrating a Windows-based application that requires the use of a shared Windows file system attached to multiple Amazon EC2 Windows instances that are deployed across multiple Availability Zones. Amazon FSx for Windows File Server provides fully managed shared storage built on Windows Server, and delivers a wide range of data access, data management, and administrative capabilities. It supports the Server Message Block (SMB) protocol and can be mounted to EC2 Windows instances across multiple Availability Zones.

Option A is incorrect because AWS Storage Gateway in volume gateway mode provides cloud-backed storage volumes that can be mounted as iSCSI devices from on-premises application servers, but it does not support SMB protocol or EC2 Windows instances. Option C is incorrect because Amazon Elastic File System (Amazon EFS) provides a scalable and elastic NFS file system for Linux-based workloads, but it does not support SMB protocol or EC2 Windows instances. Option D is incorrect because Amazon Elastic Block Store (Amazon EBS) provides persistent block storage volumes for use with EC2 instances, but it does not support SMB protocol or attaching multiple instances to the same volume.

Reference:

<https://aws.amazon.com/fsx/windows/>

<https://docs.aws.amazon.com/fsx/latest/WindowsGuide/using-file-shares.html>

NEW QUESTION # 504

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