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Amazon SCS-C02 Practice Questions

AWS Certified Security - Specialty

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1. A company has an application that uses an Amazon RDS PostgreSQL database. The company is

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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Identity and Access Management: The topic equips AWS Security specialists with skills to design, implement, and troubleshoot authentication and authorization mechanisms for AWS resources. By emphasizing secure identity management practices, this area addresses foundational competencies required for effective access control, a vital aspect of the certification exam.

Topic 2	<ul style="list-style-type: none"> • Management and Security Governance: This topic teaches AWS Security specialists to develop centralized strategies for AWS account management and secure resource deployment. It includes evaluating compliance and identifying security gaps through architectural reviews and cost analysis, essential for implementing governance aligned with certification standards.
Topic 3	<ul style="list-style-type: none"> • Threat Detection and Incident Response: In this topic, AWS Security specialists gain expertise in crafting incident response plans and detecting security threats and anomalies using AWS services. It delves into effective strategies for responding to compromised resources and workloads, ensuring readiness to manage security incidents. Mastering these concepts is critical for handling scenarios assessed in the SCS-C02 Exam.
Topic 4	<ul style="list-style-type: none"> • Security Logging and Monitoring: This topic prepares AWS Security specialists to design and implement robust monitoring and alerting systems for addressing security events. It emphasizes troubleshooting logging solutions and analyzing logs to enhance threat visibility.
Topic 5	<ul style="list-style-type: none"> • Data Protection: AWS Security specialists learn to ensure data confidentiality and integrity for data in transit and at rest. Topics include lifecycle management of data at rest, credential protection, and cryptographic key management. These capabilities are central to managing sensitive data securely, reflecting the exam's focus on advanced data protection strategies.

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Amazon AWS Certified Security - Specialty Sample Questions (Q140-Q145):

NEW QUESTION # 140

A website currently runs on Amazon EC2, with mostly static content on the site. Recently the site was subjected to a DDoS attack and a security engineer was asked to redesign the edge security to help mitigate this risk in the future.

What are some ways the engineer could achieve this (Select THREE)?

- **A. Use Amazon Route 53 to distribute traffic.**
- B. Use Amazon Inspector assessment templates to inspect the inbound traffic.
- **C. Use IAM WAF security rules to inspect the inbound traffic.**
- D. Use IAM X-Ray to inspect the traffic going to the EC2 instances.
- E. Change the security group configuration to block the source of the attack traffic.
- **F. Move the static content to Amazon S3, and front this with an Amazon CloudFront distribution.**

Answer: A,C,F

Explanation:

To redesign the edge security to help mitigate the DDoS attack risk in the future, the engineer could do the following:

- * Move the static content to Amazon S3, and front this with an Amazon CloudFront distribution. This allows the engineer to use a global content delivery network that can cache static content at edge locations and reduce the load on the origin servers.
- * Use AWS WAF security rules to inspect the inbound traffic. This allows the engineer to use web application firewall rules that can filter malicious requests based on IP addresses, headers, body, or URI strings, and block them before they reach the web servers.
- * Use Amazon Route 53 to distribute traffic. This allows the engineer to use a scalable and highly available DNS service that can

route traffic based on different policies, such as latency, geolocation, or health checks.

NEW QUESTION # 141

A company hosts its microservices application on Amazon Elastic Kubernetes Service (Amazon EKS). The company has set up continuous deployments to update the application on demand. A security engineer must implement a solution to provide automatic detection of anomalies in application logs in near real time. The solution also must send notifications about these anomalies to the security team. Which solution will meet these requirements?

- A. Configure Amazon EKS to export logs to Amazon S3. Use Amazon Athena queries to analyze the logs for anomalies. Use Amazon QuickSight to visualize and monitor user access requests for anomalies. Configure Amazon Simple Notification Service (Amazon SNS) notifications to alert the security team.
- B. Configure Amazon CloudWatch Container Insights to collect and aggregate EKS application logs. Create a CloudWatch alarm to monitor for anomalies. Configure the alarm to launch an AWS Lambda function to alert the security team when anomalies are detected.
- C. Configure Amazon EKS to send application logs to Amazon CloudWatch. Create a CloudWatch alarm based on a log group metric filter. Specify anomaly detection as the threshold type. Configure the alarm to use Amazon Simple Notification Service (Amazon SNS) to alert the security team.
- D. Configure AWS App Mesh to monitor the traffic to the microservices in Amazon EKS. Integrate App Mesh with AWS CloudTrail for logging. Use Amazon Detective to analyze the logs for anomalies and to alert the security team when anomalies are detected.

Answer: C

Explanation:

Comprehensive Detailed Explanation with all AWS References

To achieve automatic detection of anomalies in application logs in near real time and notify the security team, the following solution is appropriate:

1. Configure Amazon EKS to Send Application Logs to Amazon CloudWatch:

* Log Collection: Set up Fluent Bit or Fluentd as a DaemonSet within your EKS cluster to collect application logs and forward them to Amazon CloudWatch Logs. This setup ensures that all application logs are centralized in CloudWatch for monitoring and analysis.

NEW QUESTION # 142

A company is developing a highly resilient application to be hosted on multiple Amazon EC2 instances. The application will store highly sensitive user data in Amazon RDS tables. The application must

- * Include migration to a different IAM Region in the application disaster recovery plan.
- * Provide a full audit trail of encryption key administration events
- * Allow only company administrators to administer keys.
- * Protect data at rest using application layer encryption

A Security Engineer is evaluating options for encryption key management. Why should the Security Engineer choose IAM CloudHSM over IAM KMS for encryption key management in this situation?

- A. CloudHSM provides the ability to copy keys to a different Region, whereas IAM KMS does not
- B. CloudHSM ensures that only company support staff can administer encryption keys, whereas IAM KMS allows IAM staff to administer keys
- C. The ciphertext produced by CloudHSM provides more robust protection against brute force decryption attacks than the ciphertext produced by IAM KMS
- D. The key administration event logging generated by CloudHSM is significantly more extensive than IAM KMS.

Answer: B

NEW QUESTION # 143

A company has a new partnership with a vendor. The vendor will process data from the company's customers.

The company will upload data files as objects into an Amazon S3 bucket. The vendor will download the objects to perform data processing. The objects will contain sensitive data.

A security engineer must implement a solution that prevents objects from residing in the S3 bucket for longer than 72 hours. Which solution will meet these requirements?

- A. Use Amazon Macie to scan the S3 bucket for sensitive data every 72 hours. Configure Macie to delete the objects that contain sensitive data when they are discovered.
- B. Create an Amazon EventBridge scheduled rule that invokes an AWS Lambda function every day. Program the Lambda function to remove any objects that have been in the S3 bucket for 72 hours.
- **C. Configure an S3 Lifecycle rule on the S3 bucket to expire objects that have been in the S3 bucket for 72 hours.**
- D. Use the S3 Intelligent-Tiering storage class for all objects that are up-loaded to the S3 bucket. Use S3 Intelligent-Tiering to expire objects that have been in the S3 bucket for 72 hours.

Answer: C

NEW QUESTION # 144

A company wants to migrate its static primary domain website to AWS. The company hosts the website and DNS servers internally. The company wants the website to enforce SSL/TLS encryption block IP addresses from outside the United States (US), and take advantage of managed services whenever possible.

Which solution will meet these requirements?

- **A. Migrate the website to Amazon S3 Import a public SSL certificate that is created by AWS Certificate Manager (ACM) to Amazon CloudFront Configure CloudFront to block traffic from outside the US. Migrate DNS to Amazon Route 53.**
- B. Migrate the website to Amazon EC2 Import a public SSL certificate that is created by AWS Certificate Manager (ACM) to an Application Load Balancer with rules to block traffic from outside the US Update DNS accordingly.
- C. Migrate the website to Amazon S3. Import a public SSL certificate to Amazon CloudFront Use AWS WAF rules to block traffic from outside the US Update DNS accordingly.
- D. Migrate the website to Amazon S3 Import a public SSL certificate to an Application Load Balancer with rules to block traffic from outside the US Migrate DNS to Amazon Route 53.

Answer: A

Explanation:

To migrate the static website to AWS and meet the requirements, the following steps are required:

* Migrate the website to Amazon S3, which is a highly scalable and durable object storage service that can host static websites. To do this, create an S3 bucket with the same name as the domain name of the website, enable static website hosting for the bucket, upload the website files to the bucket, and configure the bucket policy to allow public read access to the objects. For more information, see [Hosting a static website on Amazon S3](#).

* Import a public SSL certificate that is created by AWS Certificate Manager (ACM) to Amazon CloudFront, which is a global content delivery network (CDN) service that can improve the performance and security of web applications. To do this, request or import a public SSL certificate for the domain name of the website using ACM, create a CloudFront distribution with the S3 bucket as the origin, and associate the SSL certificate with the distribution. For more information, see [Using alternate domain names and HTTPS](#).

* Configure CloudFront to block traffic from outside the US, which is one of the requirements. To do this, create a CloudFront web ACL using AWS WAF, which is a web application firewall service that lets you control access to your web applications. In the web ACL, create a rule that uses a geo match condition to block requests that originate from countries other than the US. Associate the web ACL with the CloudFront distribution. For more information, see [How AWS WAF works with Amazon CloudFront features](#).

* Migrate DNS to Amazon Route 53, which is a highly available and scalable cloud DNS service that can route traffic to various AWS services. To do this, register or transfer your domain name to Route 53, create a hosted zone for your domain name, and create an alias record that points your domain name to your CloudFront distribution. For more information, see [Routing traffic to an Amazon CloudFront web distribution by using your domain name](#).

The other options are incorrect because they either do not implement SSL/TLS encryption for the website (A), do not use managed services whenever possible (B), or do not block IP addresses from outside the US.

Verified References:

- * <https://docs.aws.amazon.com/AmazonS3/latest/userguide/HostingWebsiteOnS3Setup.html>
- * <https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/using-https-alternate-domain-name.html>
- * <https://docs.aws.amazon.com/waf/latest/developerguide/waf-cloudfront.html>
- * <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-to-cloudfront-distribution.html>

NEW QUESTION # 145

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