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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">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 3	<ul style="list-style-type: none">Infrastructure Security: Aspiring AWS Security specialists are trained to implement and troubleshoot security controls for edge services, networks, and compute workloads under this topic. Emphasis is placed on ensuring resilience and mitigating risks across AWS infrastructure. This section aligns closely with the exam's focus on safeguarding critical AWS services and environments.
Topic 4	<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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Passing an AWS Certified Security - Specialty exam on the first attempt can be stressful, but Amazon SCS-C02 exam questions can help manage stress and allow you to perform at your best. We at VCEPrep give you the techniques and resources to make sure you get the most out of your exam study. We provide preparation material for the AWS Certified Security - Specialty exam that will guide you when you sit to study for it. SCS-C02 updated questions give you enough confidence to sit for the Amazon exam.

Amazon AWS Certified Security - Specialty Sample Questions (Q399-Q404):

NEW QUESTION # 399

A company has configured an organization in AWS Organizations for its AWS accounts. AWS CloudTrail is enabled in all AWS Regions. A security engineer must implement a solution to prevent CloudTrail from being disabled. Which solution will meet this requirement?

- A. Create an SCP that includes an explicit Deny rule for the StopLogging action and the DeleteTrail action. Attach the SCP to the root OU.
- B. Create IAM policies for all the company's users to prevent the users from performing the DescribeTrails action and the GetTrailStatus action.
- C. Enable server-side encryption with AWS KMS keys (SSE-KMS) for CloudTrail logs. Create a KMS key Attach a policy to the key to prevent decryption of the logs
- D. Enable CloudTrail log file integrity validation from the organization's management account.

Answer: A

NEW QUESTION # 400

A company's Security Team received an email notification from the Amazon EC2 Abuse team that one or more of the company's Amazon EC2 instances may have been compromised. Which combination of actions should the Security team take to respond to (be current modern)? (Select TWO.)

- A. Delete the identified compromised instances and delete any associated resources that the Security team did not create.
- B. Open a support case with the IAM Security team and ask them to remove the malicious code from the affected instance
- C. Respond to the notification and list the actions that have been taken to address the incident
- D. Detach the internet gateway from the VPC remove all rules that contain 0.0.0.0/0 from the security groups, and create a NACL rule to deny all traffic Inbound from the internet
- E. Delete all IAM users and resources in the account

Answer: A,D

NEW QUESTION # 401

A company's on-premises networks are connected to VPCs using an IAM Direct Connect gateway. The company's on-premises application needs to stream data using an existing Amazon Kinesis Data Firehose delivery stream. The company's security policy requires that data be encrypted in transit using a private network.

How should the company meet these requirements?

- A. Peer the on-premises network with the Kinesis Data Firehose VPC using Direct Connect. Configure the application to connect to the existing Firehose delivery stream
- B. Configure an IAM policy to restrict access to Kinesis Data Firehose using a source IP condition. Configure the application to connect to the existing Firehose delivery stream
- C. Create a VPC endpoint for Kinesis Data Firehose. Configure the application to connect to the VPC endpoint.
- D. Create a new TLS certificate in IAM Certificate Manager (ACM). Create a public-facing Network Load Balancer (NLB) and select the newly created TLS certificate. Configure the NLB to forward all traffic to Kinesis Data Firehose. Configure the application to connect to the NLB.

Answer: C

Explanation:

To stream data using an existing Amazon Kinesis Data Firehose delivery stream and encrypt it in transit using a private network, the company should do the following:

* Create a VPC endpoint for Kinesis Data Firehose. This allows the company to use a private connection between their VPC and Kinesis Data Firehose without requiring an internet gateway or NAT device.

* Configure the application to connect to the VPC endpoint. This allows the application to stream data using Kinesis Data Firehose

over AWS PrivateLink, which encrypts all traffic with TLS.

NEW QUESTION # 402

A company has a legacy application that runs on a single Amazon EC2 instance. A security audit shows that the application has been using an IAM access key within its code to access an Amazon S3 bucket that is named DOC-EXAMPLE-BUCKET1 in the same AWS account. This access key pair has the s3:GetObject permission to all objects in only this S3 bucket. The company takes the application offline because the application is not compliant with the company's security policies for accessing other AWS resources from Amazon EC2.

A security engineer validates that AWS CloudTrail is turned on in all AWS Regions. CloudTrail is sending logs to an S3 bucket that is named DOC-EXAMPLE-BUCKET2. This S3 bucket is in the same AWS account as DOC-EXAMPLE-BUCKET1. However, CloudTrail has not been configured to send logs to Amazon CloudWatch Logs.

The company wants to know if any objects in DOC-EXAMPLE-BUCKET1 were accessed with the IAM access key in the past 60 days. If any objects were accessed, the company wants to know if any of the objects that are text files (.txt extension) contained personally identifiable information (PII).

Which combination of steps should the security engineer take to gather this information? (Choose two.)

- A. Use Amazon CloudWatch Logs Insights to identify any objects in DOC-EXAMPLE-BUCKET1 that contain PII and that were available to the access key.
- B. **Configure Amazon Macie to identify any objects in DOC-EXAMPLE-BUCKET1 that contain PII and that were available to the access key.**
- C. Use AWS Identity and Access Management Access Analyzer to identify any API calls that used the access key to access objects that contained PII in DOC-EXAMPLE-BUCKET1.
- D. Use Amazon OpenSearch Service (Amazon Elasticsearch Service) to query the CloudTrail logs in DOC-EXAMPLE-BUCKET2 for API calls that used the access key to access an object that contained PII.
- E. **Use Amazon Athena to query the CloudTrail logs in DOC-EXAMPLE-BUCKET2 for any API calls that used the access key to access an object that contained PII.**

Answer: B,E

NEW QUESTION # 403

An application is running on an Amazon EC2 instance that has an IAM role attached. The IAM role provides access to an AWS Key Management Service (AWS KMS) customer managed key and an Amazon S3 bucket. The key is used to access 2 TB of sensitive data that is stored in the S3 bucket.

A security engineer discovers a potential vulnerability on the EC2 instance that could result in the compromise of the sensitive data. Due to other critical operations, the security engineer cannot immediately shut down the EC2 instance for vulnerability patching. What is the FASTEST way to prevent the sensitive data from being exposed?

- A. Revoke the IAM role's active session permissions. Update the S3 bucket policy to deny access to the IAM role. Remove the IAM role from the EC2 instance profile.
- B. **Disable the current key. Create a new KMS key that the IAM role does not have access to, and re-encrypt all the data with the new key. Schedule the compromised key for deletion.**
- C. Download the data from the existing S3 bucket to a new EC2 instance. Then delete the data from the S3 bucket. Re-encrypt the data with a client-based key. Upload the data to a new S3 bucket.
- D. Block access to the public range of S3 endpoint IP addresses by using a host-based firewall. Ensure that internet-bound traffic from the affected EC2 instance is routed through the host-based firewall.

Answer: B

NEW QUESTION # 404

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