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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">• 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 5	<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.

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Amazon AWS Certified Security - Specialty Sample Questions (Q421-Q426):

NEW QUESTION # 421

A company hosts its public website on Amazon EC2 instances behind an Application Load Balancer (ALB).

The website is experiencing a global DDoS attack by a specific IoT device brand that has a unique user agent.

A security engineer is creating an AWS WAF web ACL and will associate the web ACL with the ALB. The security engineer must implement a rule statement as part of the web ACL to block the requests. The rule statement must mitigate the current attack and future attacks from these IoT devices without blocking requests from customers.

Which rule statement will meet these requirements?

- **A. Use a geographic match rule statement. Configure the statement to block countries that the IoT devices are located in.**
- B. Use a rate-based rule statement. Set a rate limit that is equal to the number of requests that are coming from the IoT devices.
- C. Use an IP set match rule statement that includes the IP address for IoT devices from the user agent.
- D. Use a string match rule statement that includes details of the IoT device brand from the user agent.

Answer: A

NEW QUESTION # 422

A company is implementing a customized notification solution to detect repeated unauthorized authentication attempts to bastion hosts. The company's security engineer needs to implement a solution that will provide notification when 5 failed attempts occur within a 5-minute period. The solution must use native AWS services and must notify only the designated system administrator who is assigned to the specific bastion host.

Which solution will meet these requirements?

- A. Use the Amazon CloudWatch agent to collect operating system logs. Use Amazon EventBridge to configure an alarm based on a metric filter for failed login attempts. Send an alert to Amazon Simple Notification Service (Amazon SNS) when the defined threshold for the alarm is exceeded. Use Amazon EC2 instance tags to determine which SNS topics receive notifications.
- **B. Use the Amazon CloudWatch agent to collect operating system logs Create a CloudWatch alarm based on a metric filter for failed login attempts. Send an alert to Amazon Simple Notification Service (Amazon SNS) when the defined threshold for the alarm is exceeded. Use SNS messaging filters to control who receives notifications.**
- C. Use AWS Systems Manager Agent to collect operating system logs. Use the Systems Manager Run Command AWS-ConfigureCloudWatch document to configure an Amazon CloudWatch alarm based on a metric filter for failed login attempts. Send an alert to Amazon Simple Notification Service (Amazon SNS) when the defined threshold for the alarm is exceeded. Use EC2 instance tags to determine which SNS topics receive notifications.
- D. Use AWS Systems Manager Agent to collect operating system logs. Use the Systems Manager Run Command AWS-ConfigureCloudWatch document to configure an Amazon EventBridge event based on a metric filter for failed login attempts. Send an alert to Amazon Simple Notification Service (Amazon SNS) when the defined threshold for the alarm is exceeded. Use SNS messaging filters to control who receives notifications.

Answer: B

Explanation:

Collect Operating System Logs:

Install the Amazon CloudWatch agent on the bastion hosts to collect logs, including failed login attempts from /var/log/auth.log or equivalent files.

Create a Metric Filter:

Use CloudWatch Logs to create a metric filter for failed login attempts by identifying log patterns (e.g., Failed password).

Set Up a CloudWatch Alarm:

Define an alarm in CloudWatch to trigger when the metric exceeds a threshold of 5 failed attempts within a 5- minute period.

Configure SNS for Notifications:

Use Amazon SNS to send alerts to system administrators.

Use SNS message filtering to ensure only the designated administrator for the specific bastion host receives the notification.

Monitoring CloudWatch Logs

SNS Message Filtering

NEW QUESTION # 423

A security team is developing an application on an Amazon EC2 instance to get objects from an Amazon S3 bucket. All objects in the S3 bucket are encrypted with an AWS Key Management Service (AWS KMS) customer managed key. All network traffic for requests that are made within the VPC is restricted to the AWS infrastructure. This traffic does not traverse the public internet.

The security team is unable to get objects from the S3 bucket

Which factors could cause this issue? (Select THREE.)

- A. The KMS key policy that encrypts the object in the S3 bucket does not allow the kms Decrypt action to the EC2 instance profile ARN.
- B. The IAM instance profile that is attached to the EC2 instance does not allow the s3 ListBucket action to the S3; bucket in the AWS accounts.
- C. The KMS key policy that encrypts the object in the S3 bucket does not allow the kms; ListKeys action to the EC2 instance profile ARN.
- D. The security group that is attached to the EC2 instance is missing an outbound rule to the S3 managed prefix list over port 443.
- E. The IAM instance profile that is attached to the EC2 instance does not allow the s3 ListParts action to the S3; bucket in the AWS accounts.
- F. The security group that is attached to the EC2 instance is missing an inbound rule from the S3 managed prefix list over port 443.

Answer: A,B,D

Explanation:

<https://docs.aws.amazon.com/vpc/latest/userguide/security-group-rules.html> To get objects from an S3 bucket that are encrypted with a KMS customer managed key, the security team needs to have the following factors in place:

The IAM instance profile that is attached to the EC2 instance must allow the s3:GetObject action to the S3 bucket or object in the AWS account. This permission is required to read the object from S3. Option A is incorrect because it specifies the s3:ListBucket action, which is only required to list the objects in the bucket, not to get them.

The KMS key policy that encrypts the object in the S3 bucket must allow the kms:Decrypt action to the EC2 instance profile ARN. This permission is required to decrypt the object using the KMS key. Option D is correct.

The security group that is attached to the EC2 instance must have an outbound rule to the S3 managed prefix list over port 443. This rule is required to allow HTTPS traffic from the EC2 instance to S3 within the AWS infrastructure. Option E is correct. Option B is incorrect because it specifies the s3:ListParts action, which is only required for multipart uploads, not for getting objects. Option C is incorrect because it specifies the kms:

ListKeys action, which is not required for getting objects. Option F is incorrect because it specifies an inbound rule from the S3 managed prefix list, which is not required for getting objects. Verified References:

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

<https://docs.aws.amazon.com/kms/latest/developerguide/control-access.html>

<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-endpoints-s3.html>

NEW QUESTION # 424

A company is designing a new application stack. The design includes web servers and backend servers that are hosted on Amazon EC2 instances. The design also includes an Amazon Aurora MySQL DB cluster.

The EC2 instances are in an Auto Scaling group that uses launch templates. The EC2 instances for the web layer and the backend layer are backed by Amazon Elastic Block Store (Amazon EBS) volumes. No layers are encrypted at rest. A security engineer needs to implement encryption at rest.

Which combination of steps will meet these requirements? (Choose two.)

- A. Apply AWS Certificate Manager (ACM) encryption to the existing DB cluster.
- B. Modify the launch templates for the web layer and the backend layer to add AWS Certificate Manager (ACM) encryption for the attached EBS volumes. Use an Auto Scaling group instance refresh.
- C. Modify EBS default encryption settings in the target AWS Region to enable encryption. Use an Auto Scaling group

instance refresh.

- D. Create a new AWS Key Management Service (AWS KMS) encrypted DB cluster from a snapshot of the existing DB cluster.
- E. Apply AWS Key Management Service (AWS KMS) encryption to the existing DB cluster.

Answer: C,D

NEW QUESTION # 425

A company uses Amazon EC2 Linux instances in the AWS Cloud. A member of the company's security team recently received a report about common vulnerability identifiers on the instances.

A security engineer needs to verify patching and perform remediation if the instances do not have the correct patches installed. The security engineer must determine which EC2 instances are at risk and must implement a solution to automatically update those instances with the applicable patches.

What should the security engineer do to meet these requirements?

- A. Use AWS Systems Manager Patch Manager to view vulnerability identifiers for missing patches on the instances. Use Patch Manager also to automate the patching process.
- B. Use Amazon GuardDuty to view vulnerability identifiers for missing patches on the instances. Use Amazon Inspector to automate the patching process.
- C. Use AWS Shield Advanced to view vulnerability identifiers for missing patches on the instances. Use AWS Systems Manager Patch Manager to automate the patching process.
- D. Use Amazon Inspector to view vulnerability identifiers for missing patches on the instances. Use Amazon Inspector also to automate the patching process.

Answer: A

Explanation:

<https://aws.amazon.com/about-aws/whats-new/2020/10/now-use-aws-systems-manager-to-view-vulnerability-ide>

NEW QUESTION # 426

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