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### Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>

## Amazon AWS Certified Security - Specialty Sample Questions (Q372-Q377):

### NEW QUESTION # 372

A company needs a security engineer to implement a scalable solution for multi-account authentication and authorization. The solution should not introduce additional user-managed architectural components. Native IAM features should be used as much as possible. The security engineer has set up IAM Organizations with all features activated and IAM SSO enabled.

Which additional steps should the security engineer take to complete the task?

- A. Use AD Connector to create users and groups for all employees that require access to IAM accounts. Assign AD Connector groups to IAM accounts and link to the IAM roles in accordance with the employees' job functions and access requirements. Instruct employees to access IAM accounts by using the IAM Directory Service user portal.
- B. Use IAM Directory Service for Microsoft Active Directory to create users and groups for all employees that require access to IAM accounts. Enable IAM Management Console access in the created directory and specify IAM SSO as a source of information for integrated accounts and permission sets. Instruct employees to access IAM accounts by using the IAM Directory Service user portal.
- C. Use an IAM SSO default directory to create users and groups for all employees that require access to IAM accounts. Link IAM SSO groups to the IAM users present in all accounts to inherit existing permissions. Instruct employees to access IAM accounts by using the IAM SSO user portal.
- D. Use an IAM SSO default directory to create users and groups for all employees that require access to IAM accounts. Assign groups to IAM accounts and link to permission sets in accordance with the employees' job functions and access requirements. Instruct employees to access IAM accounts by using the IAM SSO user portal.

**Answer: D**

### NEW QUESTION # 373

A company has a large fleet of Linux Amazon EC2 instances and Windows EC2 instances that run in private subnets. The company wants all remote administration to be performed as securely as possible in the AWS Cloud.

Which solution will meet these requirements?

- A. Do not use SSH-RSA private keys during the launch of new instances. Implement AWS Systems Manager Session Manager.
- B. Generate new SSH-RSA private keys for existing instances. Configure EC2 Instance Connect.
- C. Generate new SSH-RSA private keys for existing instances. Implement AWS Systems Manager Session Manager.
- D. Do not use SSH-RSA private keys during the launch of new instances. Configure EC2 Instance Connect.

**Answer: A**

Explanation:

AWS Systems Manager Session Manager is a fully managed service that allows you to securely and remotely administer your EC2 instances without the need to open inbound ports, maintain bastion hosts, or manage SSH keys. Session Manager provides an interactive browser-based shell or CLI access to your instances, as well as port forwarding and auditing capabilities. Session Manager works with both Linux and Windows instances, and supports hybrid environments and edge devices.

EC2 Instance Connect is a feature that allows you to use SSH to connect to your Linux instances using short-lived keys that are generated on demand and delivered securely through the AWS metadata service. EC2 Instance Connect does not require any additional software installation or configuration on the instance, but it does require you to use SSH-RSA keys during the launch of new instances.

The correct answer is to use Session Manager, as it provides more security and flexibility than EC2 Instance Connect, and does not require SSH-RSA keys or inbound ports. Session Manager also works with Windows instances, while EC2 Instance Connect does not.

Verified References:

\* <https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html>

\* <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Connect-using-EC2-Instance-Connect.html>

\* <https://repost.aws/questions/QUnV4R9EoeSdW0GT3cKBUR7w/what-is-the-difference-between-ec-2-inst>

### NEW QUESTION # 374

A company is investigating controls to protect sensitive data. The company uses Amazon Simple Notification Service (Amazon SNS) topics to publish messages from application components to custom logging services.

The company is concerned that an application component might publish sensitive data that will be accidentally exposed in transaction

logs and debug logs.

Which solution will protect the sensitive data in these messages from accidental exposure?

- A. Create an Amazon GuardDuty finding for sensitive data that is transmitted to the SNS topics. Create an AWS Security Hub custom remediation action to block messages that contain sensitive data from being delivered to subscribers of the SNS topics.
- **B. Configure an inbound message data protection policy. In the policy, include the De-identify operation to mask the sensitive data inside the messages. Apply the policy to the SNS topics.**
- C. Configure the SNS topics with an AWS Key Management Service (AWS KMS) customer managed key to encrypt the data elements inside the messages. Grant permissions to all message publisher IAM roles to allow access to the key to encrypt data.
- D. Use Amazon Macie to scan the SNS topics for sensitive data elements in the SNS messages.  
Create an AWS Lambda function that masks sensitive data inside the messages when Macie records a new finding.

**Answer: B**

Explanation:

<https://aws.amazon.com/blogs/compute/introducing-message-data-protection-for-amazon-sns/>

### NEW QUESTION # 375

A company needs to use HTTPS when connecting to its web applications to meet compliance requirements.

These web applications run in Amazon VPC on Amazon EC2 instances behind an Application Load Balancer (ALB). A security engineer wants to ensure that the load balancer will only accept connections over port 443.

even if the ALB is mistakenly configured with an HTTP listener

Which configuration steps should the security engineer take to accomplish this task?

- **A. Create a security group with a single inbound rule that allows connections from 0.0.0.0/0 on port 443. Ensure this security group is the only one associated with the ALB**
- B. Create a security group with a rule that denies Inbound connections from 0.0.0.0/0 on port 80. Attach this security group to the ALB to overwrite more permissive rules from the ALB's default security group.
- C. Create a network ACL that allows outbound connections to the VPC IP range on port 443 only. Associate the network ACL with the VPC's internet gateway.
- D. Create a network ACL that denies inbound connections from 0.0.0.0/0 on port 80. Associate the network ACL with the VPC's internet gateway

**Answer: A**

Explanation:

To ensure that the load balancer only accepts connections over port 443, the security engineer should do the following:

\* Create a security group with a single inbound rule that allows connections from 0.0.0.0/0 on port 443.

This means that the security group allows HTTPS traffic from any source IP address.

\* Ensure this security group is the only one associated with the ALB. This means that the security group overrides any other rules that might allow HTTP traffic on port 80.

### NEW QUESTION # 376

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 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.
- B. 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.
- **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 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.

**Answer: C**

Explanation:

Comprehensive Detailed Explanation with all AWS Reference

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.

Reference:

2. Create a CloudWatch Log Group Metric Filter and Alarm with Anomaly Detection:

Metric Filter: In CloudWatch Logs, define a metric filter to extract specific metrics from the log data. For instance, you can create a filter that counts the number of error messages or specific patterns indicative of anomalies.

Anomaly Detection: Enable CloudWatch Anomaly Detection on the metric to automatically establish a baseline of expected values and detect deviations that may indicate anomalies.

Alarm Configuration: Set up a CloudWatch Alarm using the anomaly detection model as the threshold. This alarm will trigger when the metric deviates from the expected baseline, indicating a potential anomaly.

3. Configure Notifications to the Security Team via Amazon SNS:

SNS Topic: Create an Amazon Simple Notification Service (SNS) topic dedicated to security alerts.

Subscription: Subscribe the security team's email addresses or communication channels to the SNS topic to ensure they receive notifications promptly.

Alarm Action: Configure the CloudWatch Alarm to publish a message to the SNS topic when it detects an anomaly. This setup ensures that the security team is alerted in near real time whenever an anomaly is detected in the application logs.

This solution leverages AWS managed services to provide a scalable and efficient method for real-time anomaly detection and alerting, aligning with AWS best practices for monitoring and security.

## NEW QUESTION # 377

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