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## Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<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>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 4	<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>

## Amazon AWS Certified Security - Specialty Sample Questions (Q319-Q324):

### NEW QUESTION # 319

A company finds that one of its Amazon EC2 instances suddenly has a high CPU usage. The company does not know whether the EC2 instance is compromised or whether the operating system is performing background cleanup.

Which combination of steps should a security engineer take before investigating the issue? (Select THREE.)

- A. Capture the EC2 instance metadata, and then tag the EC2 instance as under quarantine.
- B. Enable termination protection for the EC2 instance if termination protection has not been enabled.
- C. Take snapshots of the Amazon Elastic Block Store (Amazon EBS) data volumes that are attached to the EC2 instance.
- D. Immediately remove any entries in the EC2 instance metadata that contain sensitive information.
- E. Disable termination protection for the EC2 instance if termination protection has not been disabled.
- F. Remove all snapshots of the Amazon Elastic Block Store (Amazon EBS) data volumes that are attached to the EC2 instance.

**Answer: A,B,C**

Explanation:

[https://d1.awsstatic.com/WWPS/pdf/aws\\_security\\_incident\\_response.pdf](https://d1.awsstatic.com/WWPS/pdf/aws_security_incident_response.pdf)

### NEW QUESTION # 320

A company hosts an application on Amazon EC2 that is subject to specific rules for regulatory compliance.

One rule states that traffic to and from the workload must be inspected for network-level attacks. This involves inspecting the whole packet.

To comply with this regulatory rule, a security engineer must install intrusion detection software on a c5n.4xlarge EC2 instance. The engineer must then configure the software to monitor traffic to and from the application instances.

What should the security engineer do next?

- A. Configure VPC traffic mirroring to send traffic to the monitoring EC2 instance using a Network Load Balancer.
- B. Configure VPC Flow Logs to send traffic to the monitoring EC2 instance using a Network Load Balancer.
- C. Use Amazon Inspector to detect network-level attacks and trigger an IAM Lambda function to send the suspicious packets to the EC2 instance.
- D. Place the network interface in promiscuous mode to capture the traffic.

**Answer: C**

### NEW QUESTION # 321

A security engineer receives a notice from the AWS Abuse team about suspicious activity from a Linux-based Amazon EC2 instance that uses Amazon Elastic Block Store (Amazon EBS)-based storage. The instance is making connections to known malicious addresses. The instance is in a development account within a VPC that is in the us-east-1 Region. The VPC contains an internet gateway and has a subnet in us-east-1a and us-east-1b. Each subnet is associated with a route table that uses the internet gateway as a default route. Each subnet also uses the default network ACL. The suspicious EC2 instance runs within the us-east-1b subnet. During an initial investigation, a security engineer discovers that the suspicious instance is the only instance that runs in the subnet. Which response will immediately mitigate the attack and help investigate the root cause?

- A. Create an AWS WAF web ACL that denies traffic to and from the suspicious instance. Attach the AWS WAF web ACL to the instance to mitigate the attack. Log in to the instance and install diagnostic tools to investigate the instance.
- B. Ensure that the Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the suspicious EC2 instance will not delete upon termination. Terminate the instance. Launch a new EC2 instance in us-east-1a that has diagnostic tools. Mount the EBS volumes from the terminated instance for investigation.
- C. Log in to the suspicious instance and use the netstat command to identify remote connections. Use the IP addresses from these remote connections to create deny rules in the security group of the instance. Install diagnostic tools on the instance for investigation. Update the outbound network ACL for the subnet in us-east-1b to explicitly deny all connections as the first rule during the investigation of the instance.
- D. Update the outbound network ACL for the subnet in us-east-1b to explicitly deny all connections as the first rule. Replace the security group with a new security group that allows connections only from a diagnostics security group. Update the outbound network ACL for the us-east-1b subnet to remove the deny all rule. Launch a new EC2 instance that has diagnostic tools. Assign the new security group to the new EC2 instance. Use the new EC2 instance to investigate the suspicious instance.

**Answer: D**

Explanation:

Explanation:

This option suggests updating the outbound network ACL for the subnet in us-east-1b to explicitly deny all connections as the first rule, replacing the security group with a new one that only allows connections from a diagnostics security group, and launching a new EC2 instance with diagnostic tools to investigate the suspicious instance. This option will immediately mitigate the attack and provide the necessary tools for investigation.

### NEW QUESTION # 322

A security engineer for a large company is managing a data processing application used by 1,500 subsidiary companies. The parent and subsidiary companies all use AWS. The application uses TCP port 443 and runs on Amazon EC2 behind a Network Load Balancer (NLB). For compliance reasons, the application should only be accessible to the subsidiaries and should not be available on the public internet. To meet the compliance requirements for restricted access, the engineer has received the public and private CIDR block ranges for each subsidiary.

What solution should the engineer use to implement the appropriate access restrictions for the application?

- A. Create an AWS security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the security group with EC2 instances.
- B. Create an AWS security group to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the security group to the NLB. Create a second security group (for EC2 instances with access on TCP port 443 from the NLB security group).
- C. Create an AWS PrivateLink endpoint service in the parent company account attached to the NLB. Create an AWS security group for the instances to allow access on TCP port 443 from the AWS PrivateLink endpoint. Use AWS PrivateLink interface endpoints in the 1,500 subsidiary AWS accounts to connect to the data processing application.
- D. Create a NACL to allow access on TCP port 443 from the 1,500 subsidiary CIDR block ranges. Associate the NACL to both the NLB and EC2 instances.

**Answer: C**

Explanation:

Requirement Analysis:

The application should only be accessible to subsidiary companies over TCP port 443.

Direct public internet access must be restricted.

Use AWS PrivateLink:

AWS PrivateLink allows secure access to services across accounts and VPCs without exposing them to the public internet.

Steps to Implement:

Parent Account:

Create a PrivateLink Endpoint Service linked to the Network Load Balancer (NLB).

Update the security group for the EC2 instances to allow traffic from the PrivateLink endpoint on TCP port 443.

Subsidiary Accounts:

Create Interface Endpoints in the subsidiary VPCs. These endpoints securely route traffic to the parent company's application via PrivateLink.

Advantages of This Solution:

Compliance: Ensures secure communication without internet exposure.

Scalability: Easily supports all 1,500 subsidiaries.

Operational Simplicity: Centralized service in the parent account, while subsidiaries connect securely via endpoints.

AWS PrivateLink Documentation

Using Security Groups with AWS PrivateLink

### NEW QUESTION # 323

A company has an encrypted Amazon Aurora DB cluster in the us-east-1 Region. The DB cluster is encrypted with an AWS Key Management Service (AWS KMS) customer managed key. To meet compliance requirements, the company needs to copy a DB snapshot to the us-west-1 Region. However, when the company tries to copy the snapshot to us-west-1 the company cannot access the key that was used to encrypt the original database.

What should the company do to set up the snapshot in us-west-1 with proper encryption?

- A. Create an IAM policy that allows access to the customer managed key in us-east-1. Specify `arn:aws:kms:us-east-1:*` as the principal.
- **B. Create a new customer managed key in us-west-1. Use this new key to encrypt the snapshot in us-west-1.**
- C. Use AWS Secrets Manager to store the customer managed key in us-west-1 as a secret. Use this secret to encrypt the snapshot in us-west-1.
- D. Create an IAM policy that allows access to the customer managed key in us-east-1. Specify `arn:aws:rds:us-west-1:*` as the principal.

**Answer: B**

Explanation:

Explanation

"If you copy an encrypted snapshot across Regions, you must specify a KMS key valid in the destination AWS Region. It can be a Region-specific KMS key, or a multi-Region key."









<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/aurora-copy-snapshot.html#aurora-copy-sna>

### NEW QUESTION # 324

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