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Amazon SCS-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Incident Response: This domain addresses responding to security incidents through automated and manual strategies, containment, forensic analysis, and recovery procedures to minimize impact and restore operations.
Topic 2	<ul style="list-style-type: none">Detection: This domain covers identifying and monitoring security events, threats, and vulnerabilities in AWS through logging, monitoring, and alerting mechanisms to detect anomalies and unauthorized access.
Topic 3	<ul style="list-style-type: none">Data Protection: This domain centers on protecting data at rest and in transit through encryption, key management, data classification, secure storage, and backup mechanisms.

Amazon AWS Certified Security - Specialty Sample Questions (Q164-Q169):

NEW QUESTION # 164

A company has a large fleet of Amazon Linux 2 Amazon EC2 instances that run an application processing sensitive data. Compliance requirements include no exposed management ports, full session logging, and authentication through AWS IAM Identity

Center. DevOps engineers occasionally need access for troubleshooting. Which solution will provide remote access while meeting these requirements?

- A. Use Systems Manager Automation to temporarily open remote access ports.
- B. Grant access to the EC2 serial console and allow IAM role access.
- C. Enable EC2 Instance Connect and configure security groups accordingly.
- **D. Assign an EC2 instance role that allows access to AWS Systems Manager. Create an IAM policy that grants access to Systems Manager Session Manager and assign it to an IAM Identity Center role.**

Answer: D

Explanation:

AWS Systems Manager Session Manager provides secure, auditable shell access to EC2 instances without opening inbound ports. According to AWS Certified Security - Specialty guidance, Session Manager records all session activity to CloudWatch Logs or Amazon S3 and integrates with IAM Identity Center for centralized authentication.

This solution meets all requirements: no exposed ports, full audit logging, and identity-based access control. EC2 Instance Connect and serial console access do not integrate with Identity Center and may expose management paths.

NEW QUESTION # 165

A security engineer for a company needs to design an incident response plan that addresses compromised IAM user account credentials. The company uses an organization in AWS Organizations and AWS IAM Identity Center to manage user access. The company uses a delegated administrator account to implement AWS Security Hub. The delegated administrator account contains an organizational trail in AWS CloudTrail that logs all events to an Amazon S3 bucket. The company has also configured an organizational event data store that captures all events from the trail.

The incident response plan must provide steps that the security engineer can take to immediately disable any compromised IAM user when the security engineer receives a notification of a security incident. The plan must prevent the IAM user from being used in any AWS account. The plan must also collect all AWS actions that the compromised IAM user performed across all accounts in the previous 7 days.

Which solution will meet these requirements?

- **A. Disable the IAM user's access in IAM Identity Center. Use AWS CloudTrail to query the organizational event data store for actions that the IAM user performed in the previous 7 days.**
- B. Remove all IAM policies that are attached to the IAM user in the organization management account. Use AWS Security Hub to query the CloudTrail logs for actions that the IAM user performed in the previous 7 days.
- C. Remove any permission sets that are assigned to the IAM user in IAM Identity Center. Use Amazon CloudWatch Logs Insights to query the CloudTrail logs in the S3 bucket for actions that the IAM user performed in the previous 7 days.
- D. Disable the compromised IAM user in the organization management account. Use Amazon Athena to query the organizational CloudTrail logs in the S3 bucket for actions that the IAM user performed in the previous 7 days.

Answer: A

Explanation:

When AWS IAM Identity Center is used to manage user access across an AWS Organization, Identity Center is the authoritative control plane for enabling and disabling user access. According to the AWS Certified Security - Specialty Official Study Guide, disabling a user in IAM Identity Center immediately prevents that user from accessing any AWS account or role that is assigned through permission sets, satisfying the requirement to stop access organization-wide.

NEW QUESTION # 166

A company must create annual snapshots of Amazon Elastic Block Store (Amazon EBS) volumes. The company must retain the snapshots for 10 years. The company will use AWS Key Management Service (AWS KMS) to encrypt the EBS volumes and snapshots.

The encryption keys must be rotated automatically every year. Snapshots that were created in previous years must be readable after rotation of the encryption keys.

Which type of KMS keys should the company use for encryption to meet these requirements?

- **A. Symmetric customer managed KMS keys with key material created by AWS KMS**
- B. Symmetric customer managed KMS keys with custom imported key material
- C. Asymmetric AWS managed KMS keys with custom imported key material
- D. Asymmetric AWS managed KMS keys with key material created by AWS KMS

Answer: A

Explanation:

For EBS volume encryption with AWS KMS, symmetric customer managed KMS keys are recommended because they support automatic key rotation and are compatible with EBS volume and snapshot encryption. AWS KMS automatically manages previous key versions, ensuring that snapshots created with older key versions remain readable even after key rotation. This meets the requirement for automatic annual rotation and backward compatibility for reading older snapshots.

NEW QUESTION # 167

A company runs ECS services behind an internet-facing ALB that is the origin for CloudFront. An AWS WAF web ACL is associated with CloudFront, but clients can bypass it by accessing the ALB directly. Which solution will prevent direct access to the ALB?

- A. Use AWS PrivateLink with the ALB.
- **B. Require a custom header from CloudFront and validate it at the ALB.**
- C. Restrict ALB listener rules to CloudFront IP ranges.
- D. Replace the ALB with an internal ALB.

Answer: B

Explanation:

AWS best practices recommend using a shared secret header between CloudFront and ALB origins to prevent direct access.

CloudFront injects a custom header, and the ALB listener rules validate its presence.

IP-based controls are brittle due to CloudFront IP changes. PrivateLink and internal ALBs are not supported as CloudFront origins. Header validation is the most reliable and widely recommended pattern.

NEW QUESTION # 168

A company's security engineer is designing an isolation procedure for Amazon EC2 instances as part of an incident response plan. The security engineer needs to isolate a target instance to block any traffic to and from the target instance, except for traffic from the company's forensics team. Each of the company's EC2 instances has its own dedicated security group. The EC2 instances are deployed in subnets of a VPC. A subnet can contain multiple instances.

The security engineer is testing the procedure for EC2 isolation and opens an SSH session to the target instance. The procedure starts to simulate access to the target instance by an attacker. The security engineer removes the existing security group rules and adds security group rules to give the forensics team access to the target instance on port 22.

After these changes, the security engineer notices that the SSH connection is still active and usable. When the security engineer runs a ping command to the public IP address of the target instance, the ping command is blocked.

What should the security engineer do to isolate the target instance?

- A. Remove the port 22 security group rule. Attach an instance role policy that allows AWS Systems Manager Session Manager connections so that the forensics team can access the target instance.
- B. Create an AWS Systems Manager document that adds a host-level firewall rule to block all inbound traffic and outbound traffic. Run the document on the target instance.
- **C. Create a network ACL that is associated with the target instance's subnet. Add a rule at the top of the inbound rule set to deny all traffic from 0.0.0.0/0. Add a rule at the top of the outbound rule set to deny all traffic to 0.0.0.0/0.**
- D. Add an inbound rule to the security group to allow traffic from 0.0.0.0/0 for all ports. Add an outbound rule to the security group to allow traffic to 0.0.0.0/0 for all ports. Then immediately delete these rules.

Answer: C

Explanation:

Amazon EC2 security groups are stateful, meaning that once a connection is established, return traffic is automatically allowed, even if the inbound rule that originally permitted the connection is later removed.

According to the AWS Certified Security - Specialty Official Study Guide and Amazon EC2 security documentation, existing connections are not terminated when security group rules change. This explains why the SSH session remains active even after the security group rules were modified, while new traffic such as ICMP ping is blocked.

To immediately and fully isolate an EC2 instance during an incident response scenario, AWS recommends using stateless network controls. Amazon VPC network ACLs (NACLs) are stateless, which means that every packet is evaluated against the ACL rules regardless of whether the traffic is part of an existing connection. When a deny rule is added, all traffic is immediately blocked, including active sessions.

By creating a network ACL and associating it with the subnet that contains the target instance, and by adding explicit deny rules with the lowest rule numbers for both inbound and outbound traffic, the security engineer ensures that all network communication to and from the instance is immediately interrupted. This approach satisfies the requirement to isolate the instance while preserving its runtime state and memory for forensic analysis.

Other options fail to meet the requirement because security group modifications do not terminate existing sessions, Systems Manager does not enforce network isolation, and host-level firewall changes require instance-level access and do not provide immediate, network-enforced isolation.

* AWS Certified Security - Specialty Official Study Guide

* Amazon EC2 Security Groups Documentation

* Amazon VPC Network ACL Documentation

* AWS Incident Response Best Practices

NEW QUESTION # 169

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