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SCS-C02 Dumps



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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">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.
Topic 3	<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 4	<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 5	<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.

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Amazon AWS Certified Security - Specialty Sample Questions (Q41-Q46):

NEW QUESTION # 41

A security engineer is asked to update an AWS CloudTrail log file prefix for an existing trail. When attempting to save the change in the CloudTrail console, the security engineer receives the following error message: "There is a problem with the bucket policy." What will enable the security engineer to save the change?

- A. Create a new trail with the updated log file prefix, and then delete the original trail. Update the existing bucket policy in the Amazon S3 console with the new log file prefix, and then update the log file prefix in the CloudTrail console.
- **B. Update the existing bucket policy in the Amazon S3 console with the new log file prefix, and then update the log file prefix in the CloudTrail console.**
- C. Update the existing bucket policy in the Amazon S3 console to allow the security engineer's principal to perform PutBucketPolicy, and then update the log file prefix in the CloudTrail console.
- D. Update the existing bucket policy in the Amazon S3 console to allow the security engineer's principal to perform GetBucketPolicy, and then update the log file prefix in the CloudTrail console.

Answer: B

Explanation:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/create-s3-bucket-policy-for-cloudtrail.html#cloudtrail-add-change-or-remove-a-bucket-prefix>

NEW QUESTION # 42

A company is operating an open-source software platform that is internet facing. The legacy software platform no longer receives security updates. The software platform operates using Amazon Route 53 weighted load balancing to send traffic to two Amazon EC2 instances that connect to an Amazon RDS cluster. A recent report suggests this software platform is vulnerable to SQL injection attacks, with samples of attacks provided. The company's security engineer must secure this system against SQL injection attacks within 24 hours. The security engineer's solution must involve the least amount of effort and maintain normal operations during implementation.

What should the security engineer do to meet these requirements?

- A. Create an Amazon CloudFront distribution specifying one EC2 instance as an origin. Create an AWS WAF web ACL containing rules that protect the application from this attack, then apply it to the distribution. Test to ensure the vulnerability has been mitigated, then redirect the Route 53 records to point to CloudFront.
- **B. Create an Application Load Balancer with the existing EC2 instances as a target group. Create an AWS WAF web ACL containing rules that protect the application from this attack, then apply it to the ALB. Test to ensure the vulnerability has been mitigated, then redirect the Route 53 records to point to the ALB. Update security groups on the EC2 instances to prevent direct access from the internet.**
- C. Obtain the latest source code for the platform and make the necessary updates. Test the updated code to ensure that the vulnerability has been mitigated, then deploy the patched version of the platform to the EC2 instances.
- D. Update the security group that is attached to the EC2 instances, removing access from the internet to the TCP port used by the SQL database. Create an AWS WAF web ACL containing rules that protect the application from this attack, then apply it to the EC2 instances. Test to ensure the vulnerability has been mitigated, then restore the security group to the original setting.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Using AWS WAF with an Application Load Balancer (ALB) allows you to mitigate SQL injection attacks quickly by deploying managed rule groups designed for common web exploits. This method allows the existing EC2 instances to continue operating without changes, minimizing disruption.

By fronting the EC2 instances with an ALB, you can then:

* Apply WAF rules

* Redirect DNS records from Route 53 to the ALB

* Restrict direct EC2 access via security groups

This approach is rapid, low effort, and preserves availability, making it ideal for critical, time-sensitive security mitigations.

NEW QUESTION # 43

A company uses AWS Organizations to manage a small number of AWS accounts. However, the company plans to add 1 000 more accounts soon. The company allows only a centralized security team to create IAM roles for all AWS accounts and teams. Application teams submit requests for IAM roles to the security team. The security team has a backlog of IAM role requests and cannot review and provision the IAM roles quickly.

The security team must create a process that will allow application teams to provision their own IAM roles. The process must also limit the scope of IAM roles and prevent privilege escalation.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Delegate application team leads to provision IAM roles for each team. Conduct a quarterly review of the IAM roles the team leads have provisioned. Ensure that the application team leads have the appropriate training to review IAM roles.
- B. Create an IAM group for each application team. Associate policies with each IAM group. Provision IAM users for each application team member. Add the new IAM users to the appropriate IAM group by using role-based access control (RBAC).
- C. Create an SCP and a permissions boundary for IAM roles. Add the SCP to the root OU so that only roles that have the permissions boundary attached can create any new IAM roles.
- D. Put each AWS account in its own OU. Add an SCP to each OU to grant access to only the AWS services that the teams plan to use. Include conditions in the AWS account of each team.

Answer: C

Explanation:

To create a process that will allow application teams to provision their own IAM roles, while limiting the scope of IAM roles and preventing privilege escalation, the following steps are required:

Create a service control policy (SCP) that defines the maximum permissions that can be granted to any IAM role in the organization. An SCP is a type of policy that you can use with AWS Organizations to manage permissions for all accounts in your organization. SCPs restrict permissions for entities in member accounts, including each AWS account root user, IAM users, and roles. For more information, see Service control policies overview.

Create a permissions boundary for IAM roles that matches the SCP. A permissions boundary is an advanced feature for using a managed policy to set the maximum permissions that an identity-based policy can grant to an IAM entity. A permissions boundary allows an entity to perform only the actions that are allowed by both its identity-based policies and its permissions boundaries. For more information, see Permissions boundaries for IAM entities.

Add the SCP to the root organizational unit (OU) so that it applies to all accounts in the organization. This will ensure that no IAM role can exceed the permissions defined by the SCP, regardless of how it is created or modified.

Instruct the application teams to attach the permissions boundary to any IAM role they create. This will prevent them from creating IAM roles that can escalate their own privileges or access resources they are not authorized to access.

This solution will meet the requirements with the least operational overhead, as it leverages AWS Organizations and IAM features to delegate and limit IAM role creation without requiring manual reviews or approvals.

The other options are incorrect because they either do not allow application teams to provision their own IAM roles (A), do not limit the scope of IAM roles or prevent privilege escalation (B), or do not take advantage of managed services whenever possible.

Verified Reference:

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scp.html

https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_boundaries.html

NEW QUESTION # 44

A company uses identity federation to authenticate users into an identity account (987654321987) where the users assume an IAM role named IdentityRole. The users then assume an IAM role named JobFunctionRole in the target IAM account (123456789123) to perform their job functions.

A user is unable to assume the IAM role in the target account. The policy attached to the role in the identity account is:

What should be done to enable the user to assume the appropriate role in the target account?

- A. Option C
- B. Option B
- C. Option A

- D. Option D

Answer: B

Explanation:

<https://aws.amazon.com/blogs/security/how-to-use-trust-policies-with-iam-roles/>

NEW QUESTION # 45

A development team is attempting to encrypt and decode a secure string parameter from the IAM Systems Manager Parameter Store using an IAM Key Management Service (IAM KMS) CMK. However, each attempt results in an error message being sent to the development team.

Which CMK-related problems possibly account for the error? (Select two.)

- A. The CMK is used in the attempt is not enabled.
- B. The CMK is used in the attempt is using the CMK's key ID instead of the CMK ARN.
- C. The CMK is used in the attempt needs to be rotated.
- D. The CMK is used in the attempt does not exist.
- E. The CMK is used in the attempt is using an alias.

Answer: A,D

Explanation:

<https://docs.IAM.amazonaws.com/kms/latest/developerguide/services-parameter-store.html#parameter-store-cmk-fail>

NEW QUESTION # 46

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