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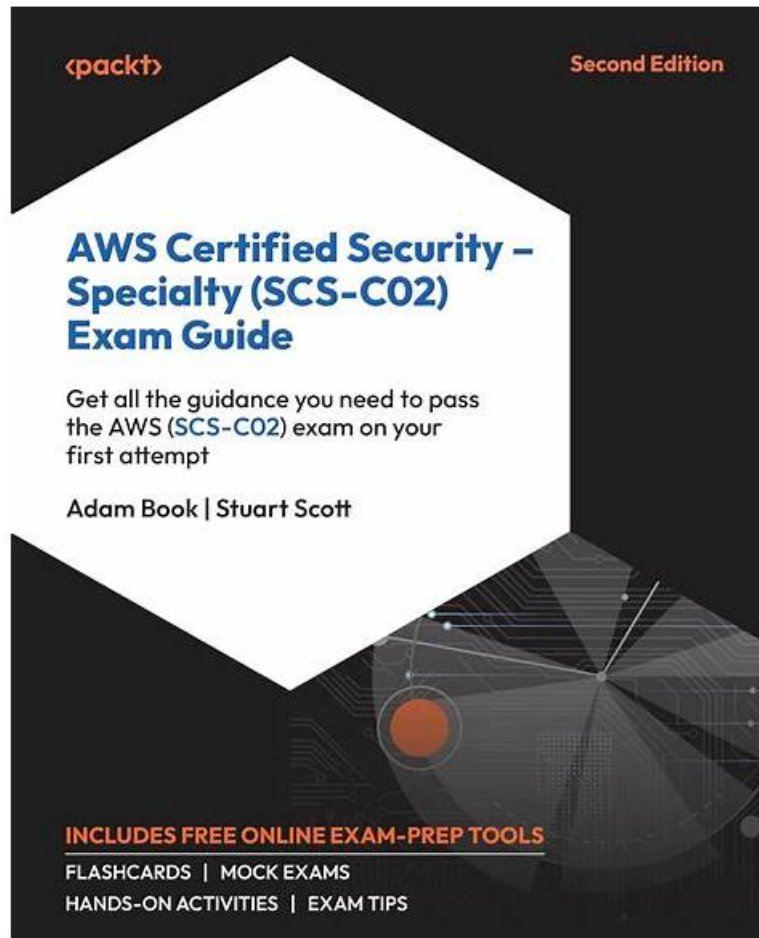

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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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.
Topic 4	• 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 5	• 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.

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Amazon AWS Certified Security - Specialty Sample Questions (Q396-Q401):

NEW QUESTION # 396
A development team is creating an open source toolset to manage a company's SaaS application. The company stores the code in a public repository so that anyone can view and download the toolset's code.
The company discovers that the code contains an IAM access key and secret key that provide access to internal resources in the company's AWS environment.
A security engineer must implement a solution to identify whether unauthorized usage of the exposed credentials has occurred. The solution also must prevent any additional usage of the exposed credentials.
Which combination of steps will meet these requirements? (Select TWO.)

- A. Generate an IAM credential report. Check the report to determine when the user that owns the access key last logged in.
- B. Use AWS Identity and Access Management Access Analyzer to determine which resources the exposed credentials accessed and who used them.
- C. Deactivate the exposed IAM access key from the user's IAM account.
- D. Create a rule in Amazon GuardDuty to block the access key in the source code from being used.
- E. Create a new IAM access key and secret key for the user whose credentials were exposed.

Answer: B,C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
* A. IAM Access Analyzer helps track and evaluate which resources were accessed and by which principals, aiding in investigating the blast radius.
* B. Deactivating the access key is the first and most critical step to immediately prevent further usage of the compromised credentials.
This is consistent with AWS incident response playbooks, which emphasize immediate revocation and impact analysis.

NEW QUESTION # 397
A security engineer logs in to the AWS Lambda console with administrator permissions. The security engineer is trying to view logs in Amazon CloudWatch for a Lambda function that is named myFunction. When the security engineer chooses the option in the

Lambda console to view logs in CloudWatch, an "error loading Log Streams" message appears.
The IAM policy for the Lambda function's execution role contains the following:
How should the security engineer correct the error?

- A. Add the logs:PutDestination action to the second Allow statement.
- B. Move the logs:CreateLogGroup action to the second Allow statement.
- C. Add the logs:GetLogEvents action to the second Allow statement.
- D. Add the logs:CreateLogStream action to the second Allow statement.

Answer: D

Explanation:
https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/iam-identity-based-access-control- cwl.html

NEW QUESTION # 398
A Security Engineer is building a Java application that is running on Amazon EC2. The application communicates with an Amazon RDS instance and authenticates with a user name and password.
Which combination of steps can the Engineer take to protect the credentials and minimize downtime when the credentials are rotated? (Choose two.)

- A. Have a Database Administrator encrypt the credentials and store the ciphertext in Amazon S3. Grant permission to the instance role associated with the EC2 instance to read the object and decrypt the ciphertext.
- B. Configure a scheduled job that updates the credential in AWS Systems Manager Parameter Store and notifies the Engineer that the application needs to be restarted.
- C. Configure automatic rotation of credentials in AWS Secrets Manager.
- D. Configure the Java application to catch a connection failure and make a call to AWS Secrets Manager to retrieve updated credentials when the password is rotated. Grant permission to the instance role associated with the EC2 instance to access Secrets Manager.
- E. Store the credential in an encrypted string parameter in AWS Systems Manager Parameter Store. Grant permission to the instance role associated with the EC2 instance to access the parameter and the AWS KMS key that is used to encrypt it.

Answer: C,D

Explanation:
AWS Secrets Manager is a service that helps you manage, retrieve, and rotate secrets such as database credentials, API keys, and other sensitive information. By configuring automatic rotation of credentials in AWS Secrets Manager, you can ensure that your secrets are changed regularly and securely, without requiring manual intervention or application downtime.
You can also specify the rotation frequency and the rotation function that performs the logic of changing the credentials on the database and updating the secret in Secrets Manager1.
E). Configure the Java application to catch a connection failure and make a call to AWS Secrets Manager to retrieve updated credentials when the password is rotated. Grant permission to the instance role associated with the EC2 instance to access Secrets Manager.
By configuring the Java application to catch a connection failure and make a call to AWS Secrets Manager to retrieve updated credentials, you can avoid hard-coding the credentials in your application code or configuration files. This way, your application can dynamically obtain the latest credentials from Secrets Manager whenever the password is rotated, without needing to restart or redeploy the application. To enable this, you need to grant permission to the instance role associated with the EC2 instance to access Secrets Manager using IAM policies2. You can also use the AWS SDK for Java to integrate your application with Secrets Manager3.

NEW QUESTION # 399
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 win 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 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
- B. Create a security group with a rule that denies Inbound connections from 0.0.0 0/0 on port 00. Attach this security group

to the ALB to overwrite more permissive rules from the ALB's default security group.

- C. 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
- D. 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.

Answer: C

Explanation:
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 # 400

To meet regulatory requirements, a Security Engineer needs to implement an IAM policy that restricts the use of AWS services to the us-east-1 Region.
What policy should the Engineer implement?

- A. A computer code with black text Description automatically generated

  □

  A computer code with text Description automatically generated
- B. □
- C. □
- D. A computer code with black text Description automatically generated

  □

Answer: D

Explanation:
https://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_examples_aws_deny-requested-region.html

NEW QUESTION # 401

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