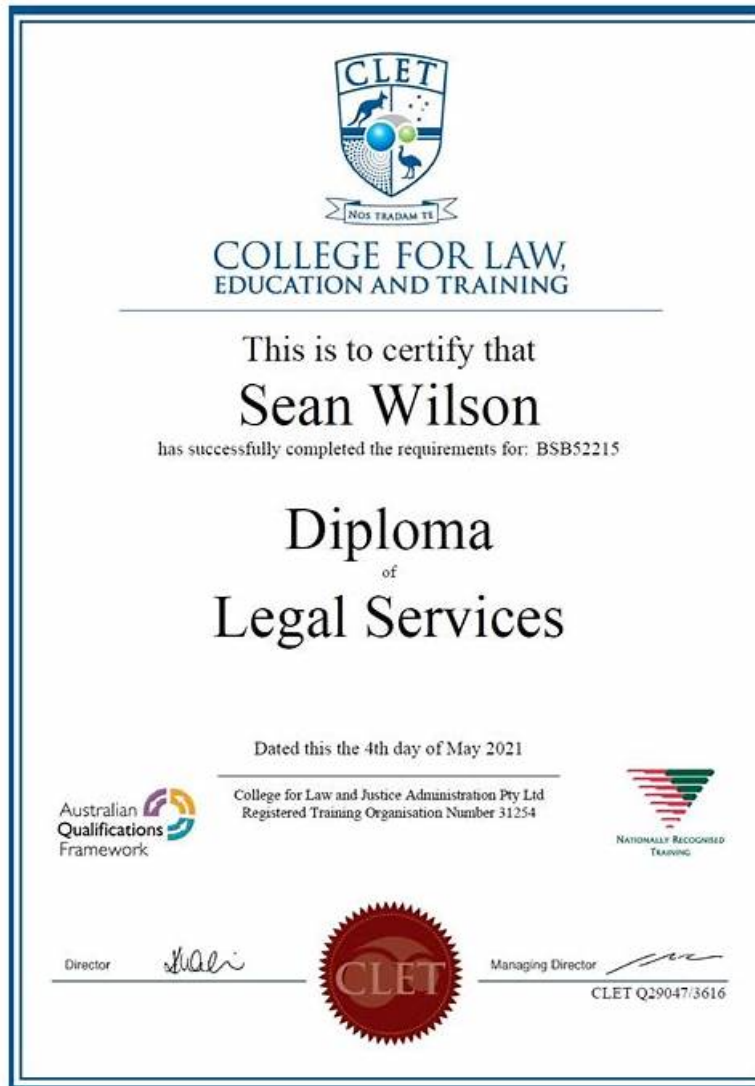


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Amazon SCS-C03 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Identity and Access Management: This domain deals with controlling authentication and authorization through user identity management, role-based access, federation, and implementing least privilege principles.

Topic 2	<ul style="list-style-type: none"> • Infrastructure Security: This domain focuses on securing AWS infrastructure including networks, compute resources, and edge services through secure architectures, protection mechanisms, and hardened configurations.
Topic 3	<ul style="list-style-type: none"> • Security Foundations and Governance: This domain addresses foundational security practices including policies, compliance frameworks, risk management, security automation, and audit procedures for AWS environments.

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

NEW QUESTION # 164

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 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. 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.
- D. 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.

Answer: B

Explanation:

AWS WAF provides managed and custom rules that can immediately mitigate common web exploits such as SQL injection without modifying application code. According to AWS Certified Security - Specialty documentation, placing AWS WAF in front of an Application Load Balancer is a recommended rapid- response control for legacy applications with known vulnerabilities.

Creating an ALB in front of the existing EC2 instances allows seamless traffic migration. AWS WAF SQL injection rules can be deployed and tested without downtime. Updating Route 53 to point to the ALB preserves normal operations. Restricting EC2 security groups afterward prevents bypassing the WAF.

Option B introduces CloudFront changes and single-origin testing, increasing complexity. Option C cannot be completed within 24 hours and risks downtime. Option D is invalid because AWS WAF cannot be attached directly to EC2 instances.

Referenced AWS Specialty Documents:

AWS Certified Security - Specialty Official Study Guide

AWS WAF Web ACL Architecture

AWS Application Load Balancer Security

NEW QUESTION # 165

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 custom imported key material
- **B. Symmetric customer managed KMS keys with key material created by AWS KMS**
- 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: B

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 # 166

A company must immediately disable compromised IAM users across all AWS accounts and collect all actions performed by the user in the last 7 days.

Which solution will meet these requirements?

- A. Disable the IAM user and query CloudTrail logs in Amazon S3 using Athena.
- B. Remove IAM policies and query logs in Security Hub.
- C. Remove permission sets and query logs using CloudWatch Logs Insights.
- **D. Disable the user in IAM Identity Center and query the organizational event data store.**

Answer: D

Explanation:

AWS IAM Identity Center centrally manages user access across an AWS Organization. Disabling the user in Identity Center immediately revokes access to all AWS accounts. According to AWS Certified Security - Specialty documentation, organizational CloudTrail event data stores provide centralized, queryable access to all events across accounts.

Using CloudTrail Lake enables direct querying of activity without exporting logs. Disabling the user at the Identity Center level ensures full containment.

Referenced AWS Specialty Documents:

AWS Certified Security - Specialty Official Study Guide

AWS IAM Identity Center Incident Response

AWS CloudTrail Lake

NEW QUESTION # 167

A company has a PHP-based web application that uses Amazon S3 as an object store for user files. The S3 bucket is configured for server-side encryption with Amazon S3 managed keys (SSE-S3). New requirements mandate full control of encryption keys.

Which combination of steps must a security engineer take to meet these requirements? (Select THREE.)

- **A. Change the SSE-S3 configuration on the S3 bucket to server-side encryption with AWS KMS managed keys (SSE-KMS).**
- B. Change the SSE-S3 configuration on the S3 bucket to server-side encryption with customer-provided keys (SSE-C).
- C. Create an AWS managed key for Amazon S3 in AWS KMS.
- **D. Create a new customer managed key in AWS Key Management Service (AWS KMS).**
- **E. Change all the S3 objects in the bucket to use the new encryption key.**
- F. Configure the PHP SDK to use the SSE-S3 key before upload.

Answer: A,D,E

Explanation:

SSE-S3 uses AWS-managed keys and does not provide customer control. AWS Certified Security - Specialty documentation states that SSE-KMS with customer managed keys allows full control, auditing, and key rotation. The security engineer must first create a customer managed KMS key, then update the bucket to use SSE-KMS. Existing objects must be re-encrypted to ensure compliance.

SSE-C requires the application to manage keys, increasing complexity and risk. AWS managed keys do not meet the requirement for customer-controlled encryption.

Referenced AWS Specialty Documents:

AWS Certified Security - Specialty Official Study Guide

Amazon S3 Encryption Options

AWS KMS Customer Managed Keys

NEW QUESTION # 168

A company has a VPC that has no internet access and has the private DNS hostnames option enabled. An Amazon Aurora database is running inside the VPC. A security engineer wants to use AWS Secrets Manager to automatically rotate the credentials for the Aurora database. The security engineer configures the Secrets Manager default AWS Lambda rotation function to run inside the same VPC that the Aurora database uses.

However, the security engineer determines that the password cannot be rotated properly because the Lambda function cannot communicate with the Secrets Manager endpoint.

What is the MOST secure way that the security engineer can give the Lambda function the ability to communicate with the Secrets Manager endpoint?

- A. Add an internet gateway for the VPC to allow access to the Secrets Manager endpoint.
- B. Add a NAT gateway to the VPC to allow access to the Secrets Manager endpoint.
- C. Add an interface VPC endpoint to the VPC to allow access to the Secrets Manager endpoint.
- D. Add a gateway VPC endpoint to the VPC to allow access to the Secrets Manager endpoint.

Answer: C

Explanation:

AWS Secrets Manager is a regional service that is accessed through private AWS endpoints. In a VPC without internet access, AWS recommends using AWS PrivateLink through interface VPC endpoints to enable secure, private connectivity to supported AWS services. According to AWS Certified Security - Specialty documentation, interface VPC endpoints allow resources within a VPC to communicate with AWS services without traversing the public internet, NAT devices, or internet gateways.

An interface VPC endpoint for Secrets Manager creates elastic network interfaces (ENIs) within the VPC subnets and assigns private IP addresses that route traffic directly to the Secrets Manager service. Because the VPC has private DNS enabled, the standard Secrets Manager DNS hostname resolves to the private IP addresses of the interface endpoint, allowing the Lambda rotation function to communicate securely and transparently.

Option A introduces unnecessary complexity and expands the attack surface by allowing outbound internet access. Option B is incorrect because gateway VPC endpoints are supported only for Amazon S3 and Amazon DynamoDB. Option D violates the security requirement by exposing the VPC to the internet.

AWS security best practices explicitly recommend interface VPC endpoints as the most secure connectivity method for private VPC workloads accessing AWS managed services.

Referenced AWS Specialty Documents:

AWS Certified Security - Specialty Official Study Guide

AWS Secrets Manager Security Architecture

AWS PrivateLink and Interface VPC Endpoints Documentation

NEW QUESTION # 169

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