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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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.
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Amazon AWS Certified Security - Specialty Sample Questions (Q72-Q77):

NEW QUESTION # 72

A company has an application that needs to get objects from an Amazon S3 bucket. The application runs on Amazon EC2 instances.

All the objects in the S3 bucket are encrypted with an AWS Key Management Service (AWS KMS) customer managed key. The resources in the VPC do not have access to the internet and use a gateway VPC endpoint to access Amazon S3.

The company discovers that the application is unable to get objects from the S3 bucket.

Which factors could cause this issue? (Choose three.)

- A. The S3 bucket policy does not allow access from the gateway VPC endpoint.
- B. The KMS key policy that encrypts the objects in the S3 bucket does not allow the kms:Decrypt action to the EC2 instance profile ARN.
- C. The IAM instance profile that is attached to the EC2 instances does not allow the s3:ListBucket action for the S3 bucket.
- D. The KMS key policy that encrypts the objects in the S3 bucket does not allow the kms:ListKeys action to the EC2 instance profile ARN.
- E. The security group that is attached to the EC2 instances is missing an inbound rule from the S3 managed prefix list over port 443.
- F. The IAM instance profile that is attached to the EC2 instances does not allow the s3:ListParts action for the S3 bucket.

Answer: A,B,C

NEW QUESTION # 73

A company has deployed Amazon GuardDuty and now wants to implement automation for potential threats.

The company has decided to start with RDP brute force attacks that come from Amazon EC2 instances in the company's AWS environment. A security engineer needs to implement a solution that blocks the detected communication from a suspicious instance until investigation and potential remediation can occur.

Which solution will meet these requirements?

- A. Enable AWS Security Hub to ingest GuardDuty findings and send the event to Amazon EventBridge (Amazon CloudWatch Events). Deploy AWS Network Firewall. Process the event with an AWS Lambda function that adds a rule to a Network Firewall firewall policy to block traffic to and from the suspicious instance.
- B. Enable AWS Security Hub to ingest GuardDuty findings. Configure an Amazon Kinesis data stream as an event destination for Security Hub. Process the event with an AWS Lambda function that replaces the security group of the suspicious instance with a security group that does not allow any connections.
- C. Configure GuardDuty to send the event to an Amazon Kinesis data stream. Process the event with an Amazon Kinesis Data Analytics for Apache Flink application that sends a notification to the company through Amazon Simple Notification Service (Amazon SNS). Add rules to the network ACL to block traffic to and from the suspicious instance.
- D. Configure GuardDuty to send the event to Amazon EventBridge (Amazon CloudWatch Events). Deploy an AWS WAF web ACL. Process the event with an AWS Lambda function that sends a notification to the company through Amazon Simple Notification Service (Amazon SNS) and adds a web ACL rule to block traffic to and from the suspicious instance.

Answer: A

Explanation:

Explanation

<https://aws.amazon.com/blogs/security/automatically-block-suspicious-traffic-with-aws-network-firewall-and-am>

NEW QUESTION # 74

A company uses a third-party identity provider and SAML-based SSO for its AWS accounts. After the third-party identity provider renewed an expired signing certificate, users saw the following message when trying to log in:

Error: Response Signature Invalid (Service: AWSSecurityTokenService; Status Code: 400; Error Code: InvalidIdentityToken)

A security engineer needs to provide a solution that corrects the error and minimizes operational overhead. Which solution meets these requirements?

- A. Download the updated SAML metadata file from the identity service provider. Update the file in the AWS identity provider entity defined in AWS Identity and Access Management (IAM) by using the AWS CLI.
- B. Sign the identity provider's metadata file with the new public key. Upload the signature to the AWS identity provider entity defined in AWS Identity and Access Management (IAM) by using the AWS CU.
- C. Configure the AWS identity provider entity defined in AWS Identity and Access Management (IAM) to synchronously fetch the new public key by using the AWS Management Console.
- D. Upload the third-party signing certificate's new private key to the AWS identity provider entity defined in AWS Identity and Access Management (IAM) by using the AWS Management Console.

Answer: A

Explanation:

Explanation

This answer is correct because downloading the updated SAML metadata file from the identity service provider ensures that AWS has the latest information about the identity provider, including the new public key. Updating the file in the AWS identity provider entity defined in IAM by using the AWS CLI allows AWS to verify the signature of the SAML assertions sent by the identity provider. This solution also minimizes operational overhead because it can be automated with a script or a cron job.

NEW QUESTION # 75

A company hosts its public website on Amazon EC2 instances behind an Application Load Balancer (ALB).

The website is experiencing a global DDoS attack by a specific IoT device brand that has a unique user agent.

A security engineer is creating an AWS WAF web ACL and will associate the web ACL with the ALB. The security engineer must implement a rule statement as part of the web ACL to block the requests. The rule statement must mitigate the current attack and future attacks from these IoT devices without blocking requests from customers.

Which rule statement will meet these requirements?

- A. Use a geographic match rule statement. Configure the statement to block countries that the IoT devices are located in.
- B. Use a string match rule statement that includes details of the IoT device brand from the user agent.
- C. Use a rate-based rule statement. Set a rate limit that is equal to the number of requests that are coming from the IoT devices.
- D. Use an IP set match rule statement that includes the IP address for IoT devices from the user agent.

Answer: A

NEW QUESTION # 76

A security engineer is checking an AWS CloudFormation template for vulnerabilities. The security engineer finds a parameter that has a default value that exposes an application's API key in plaintext. The parameter is referenced several times throughout the template. The security engineer must replace the parameter while maintaining the ability to reference the value in the template.

Which solution will meet these requirements in the MOST secure way?

`{resolve:s3:MyBucketName:MyObjectName}}`.

- A. Store the API key value in AWS Secrets Manager. In the template, replace all references to the value with `{resolve:secretsmanager:MySecretId:SecretString}}`.
- B. Store the API key value as a SecureString parameter in AWS Systems Manager Parameter Store. In the template, replace all references to the value with `{{resolve:ssm:MySSMParameterName:I}}`.
- C. Store the API key value in a new Amazon S3 bucket. In the template, replace all references to the value with `{resolve:s3:MyBucketName:MyObjectName}}`.
- D. Store the API key value in Amazon DynamoDB. In the template, replace all references to the value with `{{resolve:dynamodb:MyTableName:MyPrimaryKey}}`.

Answer: A

Explanation:

The correct answer is B. Store the API key value in AWS Secrets Manager. In the template, replace all references to the value with `{resolve:secretsmanager:MySecretId:SecretString}}`.

This answer is correct because AWS Secrets Manager is a service that helps you protect secrets that are needed to access your applications, services, and IT resources. You can store and manage secrets such as database credentials, API keys, and other sensitive data in Secrets Manager. You can also use Secrets Manager to rotate, manage, and retrieve your secrets throughout their lifecycle. Secrets Manager integrates with AWS CloudFormation, which allows you to reference secrets from your templates using the `!SecretsManager` syntax. This way, you can avoid exposing your secrets in plaintext and still use them in your resources.

The other options are incorrect because:

* A. Storing the API key value as a SecureString parameter in AWS Systems Manager Parameter Store is not a solution, because AWS CloudFormation does not support references to SecureString parameters.

This means that you cannot use the `!SecretsManager` syntax to retrieve encrypted parameter values from Parameter Store. You would have to use a custom resource or a Lambda function to decrypt the parameter value, which adds complexity and overhead to your template.

* C. Storing the API key value in Amazon DynamoDB is not a solution, because AWS CloudFormation does not support references to DynamoDB items. This means that you cannot use the `!DynamoDB` syntax to retrieve item values from DynamoDB tables. You would have to use a custom resource or a Lambda function to query the DynamoDB table, which adds complexity and overhead to your template.

* D. Storing the API key value in a new Amazon S3 bucket is not a solution, because AWS CloudFormation does not support references to S3 objects. This means that you cannot use the `!S3` syntax to retrieve object values from S3 buckets. You would have to use a custom resource or a Lambda function to download the object from S3, which adds complexity and overhead to your template.

References:

1: What is AWS Secrets Manager? 2: Referencing AWS Secrets Manager secrets from Parameter Store parameters 3: Using dynamic references to specify template values 4: Amazon DynamoDB 5: Amazon Simple Storage Service (S3)

NEW QUESTION # 77

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