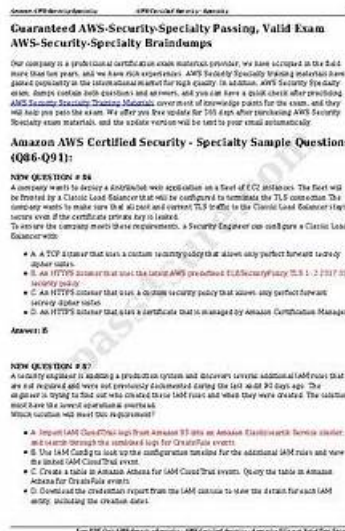# Free PDF Quiz SCS-C02 AWS Certified Security - Specialty Latest Latest Test Simulator

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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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.

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Amazon AWS Certified Security - Specialty Sample Questions (Q100-Q105):

NEW QUESTION # 100
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 allows outbound connections to the VPC IP range on port 443 only. Associate the network ACL with the VPC's internet gateway.
- B. 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
- C. 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.
- D. 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

Answer: B

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 # 101
A company has an organization in AWS Organizations. The company wants to use AWS CloudFormation StackSets in the organization to deploy various AWS design patterns into environments. These patterns consist of Amazon EC2 instances, Elastic

Load Balancing (ELB) load balancers, Amazon RDS databases, and Amazon Elastic Kubernetes Service (Amazon EKS) clusters or Amazon Elastic Container Service (Amazon ECS) clusters.

Currently, the company's developers can create their own CloudFormation stacks to increase the overall speed of delivery. A centralized CI/CD pipeline in a shared services AWS account deploys each CloudFormation stack.

The company's security team has already provided requirements for each service in accordance with internal standards. If there are any resources that do not comply with the internal standards, the security team must receive notification to take appropriate action. The security team must implement a notification solution that gives developers the ability to maintain the same overall delivery speed that they currently have.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Create an Amazon Simple Notification Service (Amazon SNS) topic and an Amazon Simple Queue Service (Amazon SQS) queue. Subscribe the security team's email addresses to the SNS topic. Create an Amazon S3 bucket in the shared services AWS account. Include an event notification to publish to the SQS queue when new objects are added to the S3 bucket. Require the developers to put their CloudFormation templates in the S3 bucket. Launch EC2 instances that automatically scale based on the SQS queue depth. Configure the EC2 instances to use CloudFormation Guard to scan the templates and deploy the templates if there are no issues.
  Configure the CI/CD pipeline to publish a notification to the SNS topic if any issues are found.
- B. Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the security team's email addresses to the SNS topic. Create custom rules in CloudFormation Guard for each resource configuration. In the CI/CD pipeline, before the build stage, configure a Docker image to run the cfn-guard command on the CloudFormation template. Configure the CI/CD pipeline to publish a notification to the SNS topic if any issues are found.
- C. Create a centralized CloudFormation stack set that includes a standard set of resources that the developers can deploy in each AWS account. Configure each CloudFormation template to meet the security requirements. For any new resources or configurations, update the CloudFormation template and send the template to the security team for review. When the review is completed, add the new CloudFormation stack to the repository for the developers to use.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the security team's email addresses to the SNS topic. Create a custom AWS Lambda function that will run the aws cloudformation validate-template AWS CLI command on all CloudFormation templates before the build stage in the CI/CD pipeline. Configure the CI/CD pipeline to publish a notification to the SNS topic if any issues are found.

Answer: B

Explanation:
You can use cfn-guard automatically as part of a CI/CD pipeline to stop deployment of non- compliant resources.
https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/best-practices.html

NEW QUESTION # 102
A company runs a web application on a fleet of Amazon EC2 instances that are in an Auto Scaling group. The EC2 instances are in the same VPC subnet as other workloads.

A security engineer deploys an Amazon GuardDuty detector in the same AWS Region as the EC2 instances.

The security engineer also sets up an AWS Security Hub integration with GuardDuty.

The security engineer needs to implement an automated solution to detect and appropriately respond to anomalous traffic patterns for the web application. The solution must comply with AWS best practices for initial response to security incidents and must minimize disruption to the web application.

Which solution will meet these requirements?

- A. Create an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the security engineer's email address to the SNS topic. Configure GuardDuty to send all findings to the SNS topic.
- B. Create an Amazon EventBridge rule that detects the Behavior:EC2/TrafficVolumeUnusual GuardDuty finding. Configure the rule to invoke an AWS Lambda function to disable the EC2 instance profile access keys.
- C. Create an Amazon EventBridge rule that invokes an AWS Lambda function when GuardDuty detects anomalous traffic. Program the Lambda function to disassociate the identified instance from the Auto Scaling group and to isolate the instance by using a new restricted security group.
- D. Create a Security Hub automated response that updates the network ACL that is associated with the subnet of the EC2 instances. Configure the response to update the network ACL to deny traffic from the source of detected anomalous traffic.

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:

GuardDuty can trigger an EventBridge rule upon detecting a suspicious finding (e.g., unusual traffic volume). Using Lambda, the automation can:
* Remove the affected instance from the Auto Scaling group to prevent it from being terminated and replaced.
* Isolate the instance by applying a restrictive security group.
This approach aligns with AWS incident response best practices, which recommend isolation over termination to preserve forensic data while minimizing disruption to the application.

NEW QUESTION # 103

A security engineer must use AWS Key Management Service (AWS KMS) to design a key management solution for a set of Amazon Elastic Block Store (Amazon EBS) volumes that contain sensitive data. The solution needs to ensure that the key material automatically expires in 90 days.
Which solution meets these criteria?

- A. A customer managed CMK that uses AWS provided key material
- B. A customer managed CMK that uses customer provided key material
- C. Operation system-native encryption that uses GnuPG
- D. An AWS managed CMK

Answer: B

Explanation:
https://awscli.amazonaws.com/v2/documentation/api/latest/reference/kms/import-key-material.html
aws kms import-key-material \
--key-id 1234abcd-12ab-34cd-56ef-1234567890ab \
--encrypted-key-material fileb://EncryptedKeyMaterial.bin \
--import-token fileb://ImportToken.bin \
--expiration-model KEY_MATERIAL_EXPIRES \
--valid-to 2021-09-21T19:00:00Z
The correct answer is A. A customer managed CMK that uses customer provided key material.
A customer managed CMK is a KMS key that you create, own, and manage in your AWS account. You have full control over the key configuration, permissions, rotation, and deletion. You can use a customer managed CMK to encrypt and decrypt data in AWS services that are integrated with AWS KMS, such as Amazon EBS1.
A customer managed CMK can use either AWS provided key material or customer provided key material.
AWS provided key material is generated by AWS KMS and never leaves the service unencrypted. Customer provided key material is generated outside of AWS KMS and imported into a customer managed CMK. You can specify an expiration date for the imported key material, after which the CMK becomes unusable until you reimport new key material2.
To meet the criteria of automatically expiring the key material in 90 days, you need to use customer provided key material and set the expiration date accordingly. This way, you can ensure that the data encrypted with the CMK will not be accessible after 90 days unless you reimport new key material and re-encrypt the data.
The other options are incorrect for the following reasons:
B). A customer managed CMK that uses AWS provided key material does not expire automatically. You can enable automatic rotation of the key material every year, but this does not prevent access to the data encrypted with the previous key material. You would need to manually delete the CMK and its backing key material to make the data inaccessible3.
C). An AWS managed CMK is a KMS key that is created, owned, and managed by an AWS service on your behalf. You have limited control over the key configuration, permissions, rotation, and deletion. You cannot use an AWS managed CMK to encrypt data in other AWS services or applications. You also cannot set an expiration date for the key material of an AWS managed CMK4.
D). Operation system-native encryption that uses GnuPG is not a solution that uses AWS KMS. GnuPG is a command line tool that implements the OpenPGP standard for encrypting and signing data. It does not integrate with Amazon EBS or other AWS services. It also does not provide a way to automatically expire the key material used for encryption5.
References:
1: Customer Managed Keys - AWS Key Management Service
2: [Importing Key Material in AWS Key Management Service (AWS KMS) - AWS Key Management Service]
3: [Rotating Customer Master Keys - AWS Key Management Service]
4: [AWS Managed Keys - AWS Key Management Service] 5: The GNU Privacy Guard

NEW QUESTION # 104

A security engineer wants to evaluate configuration changes to a specific AWS resource to ensure that the resource meets

compliance standards. However, the security engineer is concerned about a situation in which several configuration changes are made to the resource in quick succession. The security engineer wants to record only the latest configuration of that resource to indicate the cumulative impact of the set of changes.

Which solution will meet this requirement in the MOST operationally efficient way?

- A. Use Amazon CloudWatch to detect the configuration changes by filtering API calls to monitor the changes. Use the most recent API call to indicate the cumulative impact of multiple calls.
- B. Use AWS Config to detect the configuration changes and to record the latest configuration in case of multiple configuration changes.
- C. Use AWS CloudTrail to detect the configuration changes by filtering API calls to monitor the changes. Use the most recent API call to indicate the cumulative impact of multiple calls
- D. Use AWS Cloud Map to detect the configuration changes. Generate a report of configuration changes from AWS Cloud Map to track the latest state by using a sliding time window.

Answer: B

Explanation:
AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. AWS Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations.
To evaluate configuration changes to a specific AWS resource and ensure that it meets compliance standards, the security engineer should use AWS Config to detect the configuration changes and to record the latest configuration in case of multiple configuration changes. This will allow the security engineer to view the current state of the resource and its compliance status, as well as its configuration history and timeline.
AWS Config records configuration changes as ConfigurationItems, which are point-in-time snapshots of the resource's attributes, relationships, and metadata. If multiple configuration changes occur within a short period of time, AWS Config records only the latest ConfigurationItem for that resource. This indicates the cumulative impact of the set of changes on the resource's configuration.
This solution will meet the requirement in the most operationally efficient way, as it leverages AWS Config's features to monitor, record, and evaluate resource configurations without requiring additional tools or services.
The other options are incorrect because they either do not record the latest configuration in case of multiple configuration changes (A, C), or do not use a valid service for evaluating resource configurations (D).
Verified Reference:
https://docs.aws.amazon.com/config/latest/developerguide/WhatIsConfig.html
https://docs.aws.amazon.com/config/latest/developerguide/config-item-table.html

NEW QUESTION # 105

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