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AWS Certified Security - Specialty

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1. A company has an application that uses an Amazon RDS PostgreSQL database. The company is

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Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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	<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 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 (Q141-Q146):

NEW QUESTION # 141

A developer signed in to a new account within an IAM Organization organizational unit (OU) containing multiple accounts. Access to the Amazon S3 service is restricted with the following SCP.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Deny",
      "Action": "s3:*",
      "Resource": "*"
    }
  ]
}
```

How can the security engineer provide the developer with Amazon S3 access without affecting other account?

- A. Add an allow list for the developer account for the S3 service.
- B. Add an IAM policy for the developer, which grants S3 access.
- C. Move the SCP to the root OU of organization to remove the restriction to access Amazon S3.
- **D. Create a new OU without applying the SCP restricting S3 access. Move the developer account to this new OU.**

Answer: D

NEW QUESTION # 142

A company uses AWS Organizations and has production workloads across multiple AWS accounts. A security engineer needs to design a solution that will proactively monitor for suspicious behavior across all the accounts that contain production workloads.

The solution must automate remediation of incidents across the production accounts. The solution also must publish a notification to an Amazon Simple Notification Service (Amazon SNS) topic when a critical security finding is detected. In addition, the solution must send all security incident logs to a dedicated account.

Which solution will meet these requirements?

- A. Activate AWS security Hub in each production account. In a dedicated logging account, aggregate all security Hub findings from each production account. Remediate incidents by using AWS Config and AWS Systems Manager. Configure Systems Manager to also publish notifications to the SNS topic.
- B. Activate Amazon GuardDuty in each production account. In a dedicated logging account, aggregate all GuardDuty logs from each production account. Remediate incidents by using Amazon EventBridge to invoke a custom AWS Lambda function from the GuardDuty findings. Configure the Lambda function to also publish notifications to the SNS topic.
- C. Activate Amazon GuardDuty in each production account. In a dedicated logging account, aggregate all GuardDuty logs from each production account. Remediate incidents by configuring GuardDuty to directly invoke an AWS Lambda function. Configure the Lambda function to also publish notifications to the SNS topic.
- **D. Activate AWS Security Hub in each production account. In a dedicated logging account, aggregate all Security Hub findings from each production account. Remediate incidents by using Amazon EventBridge to invoke a custom AWS Lambda function from the Security Hub findings. Configure the Lambda function to also publish notifications to the SNS topic.**

Answer: D

Explanation:

Explanation

The correct answer is D.

To design a solution that will proactively monitor for suspicious behavior across all the accounts that contain production workloads, the security engineer needs to use a service that can aggregate and analyze security findings from multiple sources. AWS Security Hub is a service that provides a comprehensive view of your security posture across your AWS accounts and enables you to check your environment against security standards and best practices. Security Hub also integrates with other AWS services, such as Amazon GuardDuty, AWS Config, and AWS Systems Manager, to collect and correlate security findings.

To automate remediation of incidents across the production accounts, the security engineer needs to use a service that can trigger actions based on events. Amazon EventBridge is a serverless event bus service that allows you to connect your applications with data from a variety of sources. EventBridge can use rules to match events and route them to targets for processing. You can use EventBridge to invoke a custom AWS Lambda function from the Security Hub findings. Lambda is a serverless compute service that lets you run code without provisioning or managing servers.

To publish a notification to an Amazon SNS topic when a critical security finding is detected, the security engineer needs to use a service that can send messages to subscribers. Amazon SNS is a fully managed messaging service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SNS can deliver messages to a variety of endpoints, such as email, SMS, or HTTP. You can configure the Lambda function to also publish notifications to the SNS topic.

To send all security incident logs to a dedicated account, the security engineer needs to use a service that can aggregate and store log data from multiple sources. AWS Security Hub allows you to aggregate security findings from multiple accounts into a single account using the delegated administrator feature. This feature enables you to designate an AWS account as the administrator for Security Hub in an organization. The administrator account can then view and manage Security Hub findings from all member accounts.

Therefore, option D is correct because it meets all the requirements of the solution. Option A is incorrect because GuardDuty does not provide a comprehensive view of your security posture across your AWS accounts. GuardDuty is primarily a threat detection service that monitors for malicious or unauthorized behavior. Option B is incorrect because Config and Systems Manager are not designed to automate remediation of incidents based on Security Hub findings. Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources, while Systems Manager is a service that allows you to manage your infrastructure on AWS at scale. Option C is incorrect because GuardDuty does not provide a comprehensive view of your security posture across your AWS accounts.

References:

AWS Security Hub

Amazon EventBridge

AWS Lambda

Amazon SNS

Aggregating Security Hub findings across accounts

NEW QUESTION # 143

A company is evaluating the use of AWS Systems Manager Session Manager to gain access to the company's Amazon EC2 instances. However, until the company implements the change, the company must protect the key file for the EC2 instances from read and write operations by any other users.

When a security administrator tries to connect to a critical EC2 Linux instance during an emergency, the security administrator receives the following error. "Error Unprotected private key file - Permissions for 'ssh/my_private_key.pem' are too open". Which command should the security administrator use to modify the private key file permissions to resolve this error?

- A. `chmod 0777 ssh/my_private_key.pem`
- B. `chmod 0040 ssh/my_private_key.pem`
- **C. `chmod 0400 ssh/my_private_key.pem`**
- D. `chmod 0004 ssh/my_private_key.pem`

Answer: C

Explanation:

The error message indicates that the private key file permissions are too open, meaning that other users can read or write to the file. This is a security risk, as the private key should be accessible only by the owner of the file. To fix this error, the security administrator should use the `chmod` command to change the permissions of the private key file to 0400, which means that only the owner can read the file and no one else can read or write to it.

The `chmod` command takes a numeric argument that represents the permissions for the owner, group, and others in octal notation. Each digit corresponds to a set of permissions: read (4), write (2), and execute (1). The digits are added together to get the final permissions for each category. For example, 0400 means that the owner has read permission (4) and no other permissions (0), and the group and others have no permissions at all (0).

The other options are incorrect because they either do not change the permissions at all (D), or they give too much or too little permissions to the owner, group, or others (A, C).

Verified Reference:

<https://superuser.com/questions/215504/permissions-on-private-key-in-ssh-folder>

<https://www.baeldung.com/linux/ssh-key-permissions>

NEW QUESTION # 144

A security engineer is creating an AWS Lambda function. The Lambda function needs to use a role that is named `LambdaAuditRole` to assume a role that is named `AcmeAuditFactoryRole` in a different AWS account.

When the code is processed, the following error message appears: "An error occurred (AccessDenied) when calling the `AssumeRole` operation." Which combination of steps should the security engineer take to resolve this error? (Choose two.)

- **A. Ensure that `LambdaAuditRole` has the `sts:AssumeRole` permission for `AcmeAuditFactoryRole`.**
- B. Ensure that the trust policy for `LambdaAuditRole` allows the `sts:AssumeRole` action from the `lambda.amazonaws.com` service.
- C. Ensure that `LambdaAuditRole` has the `AWSLambdaBasicExecutionRole` managed policy attached.
- **D. Ensure that the trust policy for `AcmeAuditFactoryRole` allows the `sts:AssumeRole` action from `LambdaAuditRole`.**
- E. Ensure that the `sts:AssumeRole` API call is being issued to the `us-east-1` Region endpoint.

Answer: A,D

Explanation:

<https://repost.aws/knowledge-center/lambda-function-assume-iam-role>

NEW QUESTION # 145

A company is investigating an increase in its AWS monthly bill. The company discovers that bad actors compromised some Amazon EC2 instances and served webpages for a large email phishing campaign.

A security engineer must implement a solution to monitor for cost increases in the future to help detect malicious activity.

Which solution will offer the company the EARLIEST detection of cost increases?

- **A. Create a cost monitor in AWS Cost Anomaly Detection. Configure an individual alert to notify an Amazon Simple Notification Service (Amazon SNS) topic when the percentage above the expected cost exceeds a threshold.**
- B. Review AWS Cost Explorer daily to detect anomalies in cost from prior months. Review the usage of any services that experience a significant cost increase from prior months.
- C. Create an Amazon EventBridge rule that invokes an AWS Lambda function hourly. Program the Lambda function to download an AWS usage report from AWS Data Exports about usage of all services. Program the Lambda function to analyze the report and to send a notification when anomalies are detected.
- D. Capture VPC flow logs from the VPC where the EC2 instances run. Use a third-party network analysis tool to analyze the flow logs and to detect anomalies in network traffic that might increase cost.

Answer: A

Explanation:

- * AWS Cost Anomaly Detection:
- * AWS Cost Anomaly Detection monitors cost and usage trends in near real-time to detect unexpected spikes or patterns.
- * It can send alerts as soon as anomalies are detected, offering the earliest possible detection of cost increases.
- * Steps to Implement:
- * Create an anomaly detection monitor for the affected services or linked accounts.
- * Define a threshold for expected cost variations.
- * Set up an Amazon SNS topic to receive anomaly alerts.
- * Advantages:
- * Real-Time Monitoring: Provides near-instantaneous detection of cost anomalies.
- * Customizable Thresholds: Tailors detection sensitivity to the company's needs.
- * Other Options:
- * Option A (EventBridge and Lambda) is complex and has delays in processing.
- * Option C (Cost Explorer) is manual and retrospective.
- * Option D (Flow Logs) detects network activity, but it cannot directly link to cost increases.

AWS Cost Anomaly Detection Documentation

Creating SNS Alerts for Cost Anomalies

NEW QUESTION # 146

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