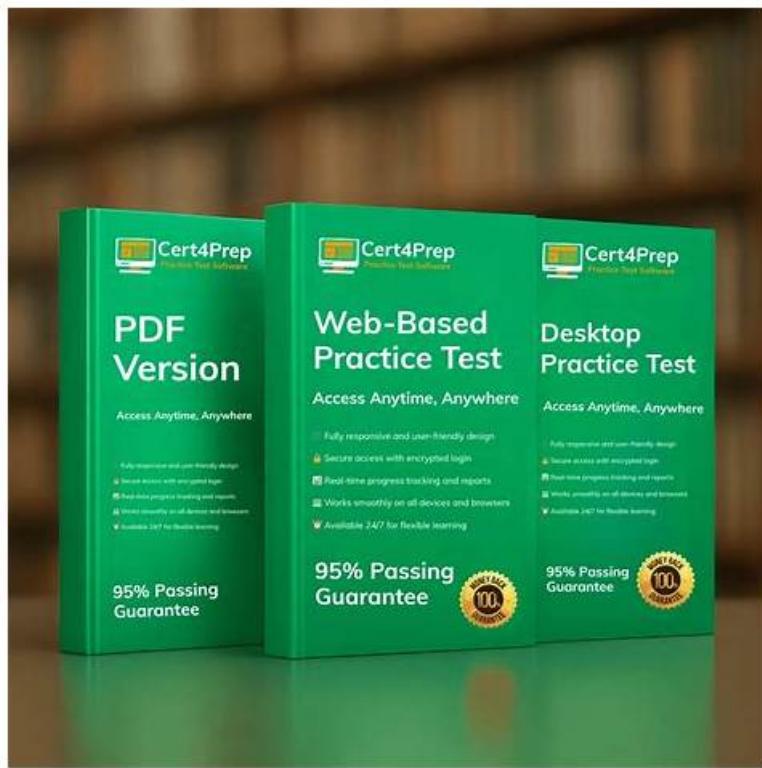


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Amazon AWS Certified Security - Specialty Sample Questions (Q158-Q163):

NEW QUESTION # 158

An audit determined that a company's Amazon EC2 instance security group violated company policy by allowing unrestricted incoming SSH traffic. A security engineer must implement a near-real-time monitoring and alerting solution that will notify administrators of such violations.

Which solution meets these requirements with the MOST operational efficiency?

- A. Use the restricted-ssh IAM Config managed rule that is invoked by security group configuration changes that are not compliant. Use the IAM Config remediation feature to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.
- B. Configure VPC Flow Logs for the VPC, and specify an Amazon CloudWatch Logs group. Subscribe the CloudWatch Logs group to an IAM Lambda function that parses new log entries, detects successful connections on port 22, and publishes a notification through Amazon Simple Notification Service (Amazon SNS).
- C. Create a recurring Amazon Inspector assessment run that runs every day and uses the Security Best Practices package. Create an Amazon CloudWatch rule that invokes an IAM Lambda function when an assessment run starts. Configure the Lambda function to retrieve and evaluate the assessment run report when it completes. Configure the Lambda function also to publish an Amazon Simple Notification Service (Amazon SNS) notification if there are any violations for unrestricted incoming SSH traffic.
- D. Create a recurring Amazon Inspector assessment run that runs every day and uses the Network Reachability package. Create an Amazon CloudWatch rule that invokes an IAM Lambda function when an assessment run starts. Configure the Lambda function to retrieve and evaluate the assessment run report when it completes. Configure the Lambda function also to publish an Amazon Simple Notification Service (Amazon SNS) notification if there are any violations for unrestricted incoming SSH traffic.

Answer: A

Explanation:

The most operationally efficient solution to implement a near-real-time monitoring and alerting solution that will notify administrators of security group violations is to use the restricted-ssh AWS Config managed rule that is invoked by security group configuration changes that are not compliant. This rule checks whether security groups that are in use have inbound rules that allow unrestricted SSH traffic. If a violation is detected, AWS Config can use the remediation feature to publish a message to an Amazon Simple Notification Service (Amazon SNS) topic.

Option A is incorrect because creating a recurring Amazon Inspector assessment run that uses the Network Reachability package is not operationally efficient, as it requires setting up an assessment target and template, running the assessment every day, and invoking a Lambda function to retrieve and evaluate the assessment report. It also does not provide near-real-time monitoring and alerting, as it depends on the frequency and duration of the assessment run.

Option C is incorrect because configuring VPC Flow Logs for the VPC and specifying an Amazon CloudWatch Logs group is not operationally efficient, as it requires creating a log group and stream, enabling VPC Flow Logs for each subnet or network interface, and subscribing a Lambda function to parse and analyze the log entries. It also does not provide proactive monitoring and alerting, as it only detects successful connections on port 22 after they have occurred.

Option D is incorrect because creating a recurring Amazon Inspector assessment run that uses the Security Best Practices package is not operationally efficient, for the same reasons as option A. It also does not provide specific monitoring and alerting for security group violations, as it covers a broader range of security issues.

References:
* [AWS Config Rules]
* [AWS Config Remediation]
* [Amazon Inspector]
* [VPC Flow Logs]

NEW QUESTION # 159

A company is building an application on IAM that will store sensitive information. The company has a support team with access to the IT infrastructure, including databases. The company's security engineer must introduce measures to protect the sensitive data against any data breach while minimizing management overhead. The credentials must be regularly rotated.

What should the security engineer recommend?

- A. Set up an IAM CloudHSM cluster with IAM Key Management Service (IAM KMS) to store KMS keys. Set up Amazon RDS encryption using IAM KMS to encrypt the database. Store database credentials in the IAM Systems Manager Parameter Store with automatic rotation. Set up TLS for the connection to the RDS hosted database.
- B. Enable Amazon RDS encryption to encrypt the database and snapshots. Enable Amazon Elastic Block Store (Amazon EBS) encryption on Amazon EC2 instances. Include the database credential in the EC2 user data field. Use an IAM Lambda function to rotate database credentials. Set up TLS for the connection to the database.
- C. Install a database on an Amazon EC2 Instance. Enable third-party disk encryption to encrypt the Amazon Elastic Block Store (Amazon EBS) volume. Store the database credentials in IAM CloudHSM with automatic rotation. Set up TLS for the connection to the database.
- D. Enable Amazon RDS encryption to encrypt the database and snapshots. Enable Amazon Elastic Block Store (Amazon EBS) encryption on Amazon EC2 instances. Store the database credentials in IAM Secrets Manager with automatic rotation.

Set up TLS for the connection to the RDS hosted database.

Answer: D

Explanation:

To protect the sensitive data against any data breach and minimize management overhead, the security engineer should recommend the following solution:

Enable Amazon RDS encryption to encrypt the database and snapshots. This allows the security engineer to use AWS Key Management Service (AWS KMS) to encrypt data at rest for the database and any backups or replicas.

Enable Amazon Elastic Block Store (Amazon EBS) encryption on Amazon EC2 instances. This allows the security engineer to use AWS KMS to encrypt data at rest for the EC2 instances and any snapshots or volumes.

Store the database credentials in AWS Secrets Manager with automatic rotation. This allows the security engineer to encrypt and manage secrets centrally, and to configure automatic rotation schedules for them.

Set up TLS for the connection to the RDS hosted database. This allows the security engineer to encrypt data in transit between the EC2 instances and the database.

NEW QUESTION # 160

A company created an IAM account for its developers to use for testing and learning purposes. Because MM account will be shared among multiple teams of developers, the company wants to restrict the ability to stop and terminate Amazon EC2 instances so that a team can perform these actions only on the instances it owns.

Developers were instructed to tag all their instances with a Team tag key and use the team name in the tag value. One of the first teams to use this account is Business Intelligence. A security engineer needs to develop a highly scalable solution for providing developers with access to the appropriate resources within the account. The security engineer has already created individual IAM roles for each team.

Which additional configuration steps should the security engineer take to complete the task?

- A. For each team, create an IAM policy similar to the one that follows. Populate the `ec2:ResourceTag` /`Team` condition key with a proper team name. Attach resulting policies to the corresponding IAM roles.
- B. Tag each IAM role with the Team key, and use the team name in the tag value. Create an IAM policy similar to the one that follows, and attach it to all the IAM roles used by developers.
- C. Tag each IAM role with a Team tag key, and use the team name in the tag value. Create an IAM policy similar to the one that follows, and attach it to all the IAM roles used by developers.
- D. For each team create an IAM policy similar to the one that follows. Populate the `IAM TagKeys`/`Team` condition key with a proper team name. Attach the resulting policies to the corresponding IAM roles.

Answer: A

NEW QUESTION # 161

A company hosts an application on Amazon EC2 that is subject to specific rules for regulatory compliance.

One rule states that traffic to and from the workload must be inspected for network-level attacks. This involves inspecting the whole packet.

To comply with this regulatory rule, a security engineer must install intrusion detection software on a c5n.

4xlarge EC2 instance. The engineer must then configure the software to monitor traffic to and from the application instances.

What should the security engineer do next?

- A. Configure VPC Flow Logs to send traffic to the monitoring EC2 instance using a Network Load Balancer.
- B. Use Amazon Inspector to detect network-level attacks and trigger an IAM Lambda function to send the suspicious packets to the EC2 instance.
- C. Configure VPC traffic mirroring to send traffic to the monitoring EC2 instance using a Network Load Balancer.
- D. Place the network interface in promiscuous mode to capture the traffic.

Answer: B

NEW QUESTION # 162

A company uses a collaboration application. A security engineer needs to configure automated alerts from AWS Security Hub in the us-west-2 Region for the application. The security engineer wants to receive an alert in a channel in the application every time Security Hub receives a new finding.

The security engineer creates an AWS Lambda function to convert the message to the format that the application requires. The Lambda function also sends the message to the application's API. The security engineer configures a corresponding Amazon EventBridge rule that specifies the Lambda function as the target.

After the EventBridge rule is implemented, the channel begins to constantly receive alerts from Security Hub.

Many of the alerts are Amazon Inspector alerts that do not require any action. The security engineer wants to stop the Amazon Inspector alerts.

Which solution will meet this requirement with the LEAST operational effort?

- A. Update the Lambda function code to find pattern matches of events from Amazon Inspector and to suppress the findings.
- **B. Modify the value of the ProductArn attribute in the event pattern of the EventBridge rule to "anything-but": ["arn:aws:securityhub:us-west-2:product/aws/inspector"].**
- C. Create a Security Hub custom action that automatically sends findings from all services except Amazon Inspector to the EventBridge event bus.
- D. Create an Amazon Simple Notification Service (Amazon SNS) topic to send messages to the application. Set a filter policy on the topic subscriptions to reject any messages that contain the product /aws/inspector string.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The most operationally efficient solution is to modify the EventBridge rule's event pattern using the anything-but operator on the ProductArn attribute. This effectively filters out all findings generated by Amazon Inspector, allowing all other findings to trigger alerts as intended-without modifying Lambda code or managing additional services like SNS.

This technique aligns with Logging and Monitoring best practices to reduce noise from security alerts and improve response efficiency by filtering at the event rule level.

NEW QUESTION # 163

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