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gain meaningful knowledge.

Amazon AWS Certified Security - Specialty Sample Questions (Q29-Q34):

NEW QUESTION # 29

A security engineer is configuring a mechanism to send an alert when three or more failed sign-in attempts to the AWS Management Console occur during a 5-minute period. The security engineer creates a trail in AWS CloudTrail to assist in this work. Which solution will meet these requirements?

- **A. Configure CloudTrail to send events to Amazon CloudWatch Logs. Create a metric filter for the relevant log group. Create a filter pattern with eventName matching ConsoleLogin and errorMessage matching "Failed authentication". Create a CloudWatch alarm with a threshold of 3 and a period of 5 minutes.**
- B. In AWS Identity and Access Management Access Analyzer, create a new analyzer. Configure the analyzer to send an Amazon Simple Notification Service (Amazon SNS) notification when a failed sign-in event occurs 3 times for any IAM user within a period of 5 minutes.
- C. Create an Amazon Athena table from the CloudTrail events. Run a query for eventName matching ConsoleLogin and for errorMessage matching "Failed authentication". Create a notification action from the query to send an Amazon Simple Notification Service (Amazon SNS) notification when the count equals 3 within a period of 5 minutes.
- D. In CloudTrail, turn on Insights events on the trail. Configure an alarm on the insight with eventName matching ConsoleLogin and errorMessage matching "Failed authentication". Configure a threshold of 3 and a period of 5 minutes.

Answer: A

Explanation:

The correct answer is B. Configure CloudTrail to send events to Amazon CloudWatch Logs. Create a metric filter for the relevant log group. Create a filter pattern with eventName matching ConsoleLogin and errorMessage matching "Failed authentication". Create a CloudWatch alarm with a threshold of 3 and a period of 5 minutes.

This answer is correct because it meets the requirements of sending an alert when three or more failed sign-in attempts to the AWS Management Console occur during a 5-minute period. By configuring CloudTrail to send events to CloudWatch Logs, the security engineer can create a metric filter that matches the desired pattern of failed sign-in events. Then, by creating a CloudWatch alarm based on the metric filter, the security engineer can set a threshold of 3 and a period of 5 minutes, and choose an action such as sending an email or an Amazon Simple Notification Service (Amazon SNS) message when the alarm is triggered¹².

The other options are incorrect because:

A) Turning on Insights events on the trail and configuring an alarm on the insight is not a solution, because Insights events are used to analyze unusual activity in management events, such as spikes in API call volume or error rates. Insights events do not capture failed sign-in attempts to the AWS Management Console³.

C) Creating an Amazon Athena table from the CloudTrail events and running a query for failed sign-in events is not a solution, because it does not provide a mechanism to send an alert based on the query results. Amazon Athena is an interactive query service that allows analyzing data in Amazon S3 using standard SQL, but it does not support creating notifications or alarms from queries⁴.

D) Creating an analyzer in AWS Identity and Access Management Access Analyzer and configuring it to send an Amazon SNS notification when a failed sign-in event occurs 3 times for any IAM user within a period of 5 minutes is not a solution, because IAM Access Analyzer is not a service that monitors sign-in events, but a service that helps identify resources that are shared with external entities. IAM Access Analyzer does not generate findings for failed sign-in attempts to the AWS Management Console⁵.

Reference:

- 1: Sending CloudTrail Events to CloudWatch Logs - AWS CloudTrail
- 2: Creating Alarms Based on Metric Filters - Amazon CloudWatch
- 3: Analyzing unusual activity in management events - AWS CloudTrail
- 4: What is Amazon Athena? - Amazon Athena
- 5: Using AWS Identity and Access Management Access Analyzer - AWS Identity and Access Management

NEW QUESTION # 30

A company has recently recovered from a security incident that required the restoration of Amazon EC2 instances from snapshots. The company uses an AWS Key Management Service (AWS KMS) customer managed key to encrypt all Amazon Elastic Block Store (Amazon EBS) snapshots.

The company performs a gap analysis of its disaster recovery procedures and backup strategies. A security engineer needs to implement a solution so that the company can recover the EC2 instances if the AWS account is compromised and the EBS snapshots are deleted.

Which solution will meet this requirement?

- A. Use AWS Systems Manager to distribute a configuration that backs up all attached disks to Amazon S3.
- B. Use AWS Backup to copy EBS snapshots to Amazon S3. Use S3 Object Lock to prevent deletion of the snapshots.
- **C. Create a new AWS account that has limited privileges. Allow the new account to access the KMS key that encrypts the**

EBS snapshots. Copy the encrypted snapshots to the new account on a recurring basis.

- D. Create a new Amazon S3 bucket. Use EBS lifecycle policies to move EBS snapshots to the new S3 bucket. Use lifecycle policies to move snapshots to the S3 Glacier Instant Retrieval storage class. Use S3 Object Lock to prevent deletion of the snapshots.

Answer: C

Explanation:

Explanation

This solution meets the requirement of recovering the EC2 instances if the AWS account is compromised and the EBS snapshots are deleted. By creating a new AWS account with limited privileges, the company can isolate the backup snapshots from the main account and reduce the risk of accidental or malicious deletion. By allowing the new account to access the KMS key that encrypts the EBS snapshots, the company can ensure that the snapshots are copied in an encrypted form and can be decrypted when needed. By copying the encrypted snapshots to the new account on a recurring basis, the company can maintain a consistent backup schedule and minimize data loss.

NEW QUESTION # 31

A company is building a data processing application that uses AWS Lambda functions. The application's Lambda functions need to communicate with an Amazon RDS DB instance that is deployed within a VPC in the same AWS account. Which solution meets these requirements in the MOST secure way?

- **A. Deploy the Lambda functions inside the VPC. Attach a security group to the Lambda functions. Provide outbound rule access to the VPC CIDR range only. Update the DB instance security group to allow traffic from the Lambda security group.**
- B. Peer the Lambda default VPC with the VPC that hosts the DB instance to allow direct network access without the need for security groups.
- C. Deploy the Lambda functions inside the VPC. Attach a network ACL to the Lambda subnet. Provide outbound rule access to the VPC CIDR range only. Update the DB instance security group to allow traffic from 0.0.0.0/0.
- D. Configure the DB instance to allow public access. Update the DB instance security group to allow access from the Lambda public address space for the AWS Region.

Answer: A

Explanation:

Explanation

The AWS documentation states that you can deploy the Lambda functions inside the VPC and attach a security group to the Lambda functions. You can then provide outbound rule access to the VPC CIDR range only and update the DB instance security group to allow traffic from the Lambda security group. This method is the most secure way to meet the requirements.

References: : AWS Lambda Developer Guide

NEW QUESTION # 32

AWS CloudTrail is being used to monitor API calls in an organization. An audit revealed that CloudTrail is failing to deliver events to Amazon S3 as expected.

What initial actions should be taken to allow delivery of CloudTrail events to S3? (Select TWO.)

- A. Verify that the log file prefix defined in CloudTrail exists in the S3 bucket.
- **B. Verify that the S3 bucket defined in CloudTrail exists.**
- C. Verify that the IAM role used by CloudTrail has access to write to Amazon CloudWatch Logs.
- **D. Verify that the S3 bucket policy allows CloudTrail to write objects.**
- E. Remove any lifecycle policies on the S3 bucket that are archiving objects to S3 Glacier Flexible Retrieval.

Answer: B,D

Explanation:

To resolve CloudTrail's failure to deliver events to S3, verifying the S3 bucket policy for CloudTrail's write permissions (A) and ensuring the existence of the specified S3 bucket (D) are critical initial steps. These actions ensure that CloudTrail has the necessary permissions and a valid destination for log file delivery, addressing common configuration issues that can interrupt event logging.

NEW QUESTION # 33

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

Answer: A

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 References:

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

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

NEW QUESTION # 34

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