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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.

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Amazon AWS Certified Security - Specialty Sample Questions (Q137-Q142):

NEW QUESTION # 137

A company is using Amazon Elastic Container Service (Amazon ECS) to deploy an application that deals with sensitive data. During a recent security audit, the company identified a security issue in which Amazon RDS credentials were stored with the application code in the company's source code repository. A security engineer needs to develop a solution to ensure that database credentials are stored securely and rotated periodically. The credentials should be accessible to the application only. The engineer also needs to prevent database administrators from sharing database credentials as plaintext with other teammates. The solution must also minimize administrate overhead. Which solution meets these requirements?

- A. Use IAM Secrets Manager to store database credentials. Use IAM roles for ECS tasks to restrict access to database credentials to specific containers only.
- B. Use IAM Secrets Manager to store database credentials. Use an IAM inline policy for ECS tasks to restrict access to database credentials to specific containers only.
- C. Use the IAM Systems Manager Parameter Store to generate database credentials. Use an IAM profile for ECS tasks to restrict access to database credentials to specific containers only.
- D. Use the IAM Systems Manager Parameter Store to store database credentials. Use IAM roles for ECS tasks to restrict access to database credentials to specific containers only

Answer: A

Explanation:

Explanation

To ensure that database credentials are stored securely and rotated periodically, the security engineer should do the following: Use AWS Secrets Manager to store database credentials. This allows the security engineer to encrypt and manage secrets centrally, and to configure automatic rotation schedules for them.

Use IAM roles for ECS tasks to restrict access to database credentials to specific containers only. This allows the security engineer to grant fine-grained permissions to ECS tasks based on their roles, and to avoid sharing credentials as plaintext with other teammates.

NEW QUESTION # 138

A company is processing data on AWS. The data is transmitted by millions of connected devices and is stored in Amazon RDS and Amazon DocumentDB (with MongoDB compatibility). The company uses AWS Backup to back up the data.

The company needs a solution to preserve individual backup recovery points. All related data and metadata, such as character encodings and datatypes, must remain unchanged and protected from deletion. Retention times for the data will vary from several days to several years.

Which solution will meet these requirements?

- A. Export the backup data to Amazon S3. Create S3 Object Lock legal holds for the recovery points.
- B. Configure an AWS Backup Vault Lock in governance mode.
- C. Use AWS Backup to create legal holds for the recovery points.
- D. Configure an AWS Backup Vault Lock in compliance mode.

Answer: D

NEW QUESTION # 139

A security engineer is trying to use Amazon EC2 Image Builder to create an image of an EC2 instance. The security engineer has configured the pipeline to send logs to an Amazon S3 bucket. When the security engineer runs the pipeline, the build fails with the following error: "AccessDenied: Access Denied status code: 403".

The security engineer must resolve the error by implementing a solution that complies with best practices for least privilege access. Which combination of steps will meet these requirements? (Choose two.)

- A. Ensure that the following policies are attached to the instance profile for the EC2 instance: EC2InstanceProfileForImageBuilder, EC2InstanceProfileForImageBuilderECRCContainerBuilds, and AmazonSSMManagedInstanceCore.
- B. Ensure that the security engineer's IAM role has the s3:PutObject permission for the S3 bucket.
- C. Ensure that the instance profile for the EC2 instance has the s3:PutObject permission for the S3 bucket.
- D. Ensure that the AWSImageBuilderFullAccess policy is attached to the instance profile for the EC2 instance.
- E. Ensure that the following policies are attached to the IAM role that the security engineer is using: EC2InstanceProfileForImageBuilder, EC2InstanceProfileForImageBuilderECRCContainerBuilds, and AmazonSSMManagedInstanceCore.

Answer: A,C

Explanation:

The most likely cause of the error is that the instance profile for the EC2 instance does not have the s3:PutObject permission for the S3 bucket. This permission is needed to upload logs to the bucket. Therefore, the security engineer should ensure that the instance profile has this permission.

One possible solution is to attach the AWSImageBuilderFullAccess policy to the instance profile for the EC2 instance. This policy grants full access to Image Builder resources and related AWS services, including the s3:PutObject permission for any bucket with "imagebuilder" in its name. However, this policy may grant more permissions than necessary, which violates the principle of least privilege.

Another possible solution is to create a custom policy that only grants the s3:PutObject permission for the specific S3 bucket that is used for logging. This policy can be attached to the instance profile along with the other policies that are required for Image Builder functionality: EC2InstanceProfileForImageBuilder, EC2InstanceProfileForImageBuilderECRContainerBuilds, and

AmazonSSMManagedInstanceCore. This solution follows the principle of least privilege more closely than the previous one.

* Ensure that the following policies are attached to the instance profile for the EC2 instance:

EC2InstanceProfileForImageBuilder, EC2InstanceProfileForImageBuilderECRContainerBuilds, and AmazonSSMManagedInstanceCore.

* Ensure that the instance profile for the EC2 instance has the s3:PutObject permission for the S3 bucket.

This can be done by either attaching the AWSImageBuilderFullAccess policy or creating a custom policy with this permission.

1: Using managed policies for EC2 Image Builder - EC2 Image Builder 2: PutObject - Amazon Simple Storage Service 3: AWSImageBuilderFullAccess - AWS Managed Policy

NEW QUESTION # 140

A healthcare company has multiple AWS accounts in an organization in AWS Organizations. The company uses Amazon S3 buckets to store sensitive information of patients. The company needs to restrict users from deleting any S3 bucket across the organization.

What is the MOST scalable solution that meets these requirements?

- A. Tag policies
- B. Permissions boundaries in AWS Identity and Access Management (IAM)
- C. S3 bucket policies
- D. SCPs

Answer: D

Explanation:

* AWS Organizations and SCPs:

* SCPs allow centralized control over permissions across all accounts in an AWS Organization.

* Use SCPs to prevent specific actions, such as S3 bucket deletion, across all accounts.

* Create an SCP for S3 Bucket Deletion:

* Define an SCP that explicitly denies the s3:DeleteBucket action.

Example SCP:

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

* Attach SCP to the Root or Specific OUs:

* Attach the SCP to the root of the organization or specific organizational units (OUs) as needed.

Advantages:

* Scalability: Applies to all accounts in the organization without the need for individual configuration.

* Compliance: Ensures sensitive S3 buckets are protected from accidental or malicious deletion.

AWS Organizations SCP Documentation

Restricting S3 Actions with SCPs

NEW QUESTION # 141

A company operates a web application that runs on Amazon EC2 instances. The application listens on port 80 and port 443. The company uses an Application Load Balancer (ALB) with AWS WAF to terminate SSL and to forward traffic to the application instances only on port 80.

The ALB is in public subnets that are associated with a network ACL that is named NACL1. The application instances are in dedicated private subnets that are associated with a network ACL that is named NACL2. An Amazon RDS for PostgreSQL DB instance that uses port 5432 is in a dedicated private subnet that is associated with a network ACL that is named NACL3. All the network ACLs currently allow all inbound and outbound traffic.

Which set of network ACL changes will increase the security of the application while ensuring functionality?

- A. Make the following changes to NACL2:
* Add a rule that allows inbound traffic on port 5432 from the CIDR blocks of the RDS subnets.
* Add a rule that allows outbound traffic on port 5432 to the RDS subnets.
- B. Make the following changes to NACL3:
* Add a rule that allows inbound traffic on port 5432 from NACL2.
* Add a rule that allows outbound traffic on ports 1024-65536 to NACL2.
* Remove the default rules that allow all inbound and outbound traffic.
- C. Make the following changes to NACL3:
* Add a rule that allows inbound traffic on port 5432 from the CIDR blocks of the application instance subnets.
* Add a rule that allows outbound traffic on ports 1024-65536 to the application instance subnets.
* Remove the default rules that allow all inbound and outbound traffic.
- D. Make the following changes to NACL2:
* Add a rule that allows outbound traffic on port 5432 to the CIDR blocks of the RDS subnets.
* Remove the default rules that allow all inbound and outbound traffic.

Answer: C

Explanation:

For increased security while ensuring functionality, adjusting NACL3 to allow inbound traffic on port 5432 from the CIDR blocks of the application instance subnets, and allowing outbound traffic on ephemeral ports (1024-65536) back to those subnets creates a secure path for database access. Removing default allow-all rules enhances security by implementing the principle of least privilege, ensuring that only necessary traffic is permitted.

NEW QUESTION # 142

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