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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">• 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 3	<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 (Q420-Q425):

NEW QUESTION # 420

A Security Engineer receives alerts that an Amazon EC2 instance on a public subnet is under an SFTP brute force attack from a specific IP address, which is a known malicious bot. What should the Security Engineer do to block the malicious bot?

- A. Add a deny rule to the public VPC security group to block the malicious IP
- B. Add the malicious IP to IAM WAF backhstd IPs
- C. Modify the hosted zone in Amazon Route 53 and create a DNS sinkhole for the malicious IP**
- D. Configure Linux iptables or Windows Firewall to block any traffic from the malicious IP

Answer: C

NEW QUESTION # 421

A company maintains an open-source application that is hosted on a public GitHub repository. While creating a new commit to the repository, an engineer uploaded their IAM access key and secret access key. The engineer reported the mistake to a manager, and the manager immediately disabled the access key.

The company needs to assess the impact of the exposed access key. A security engineer must recommend a solution that requires the least possible managerial overhead.

Which solution meets these requirements?

- A. Analyze an IAM Identity and Access Management (IAM) use report from IAM Trusted Advisor to see when the access key was last used.**
- B. Analyze a credential report in IAM Identity and Access Management (IAM) to see when the access key was last used.
- C. Analyze VPC flow logs for activity by searching for the access key
- D. Analyze Amazon CloudWatch Logs for activity by searching for the access key.

Answer: A

Explanation:

To assess the impact of the exposed access key, the security engineer should recommend the following solution:

Analyze an IAM use report from AWS Trusted Advisor to see when the access key was last used. This allows the security engineer to use a tool that provides information about IAM entities and credentials in their account, and check if there was any unauthorized activity with the exposed access key.

NEW QUESTION # 422

A Security Architect has been asked to review an existing security architecture and identify why the application servers cannot successfully initiate a connection to the database servers. The following summary describes the architecture:

1 An Application Load Balancer, an internet gateway, and a NAT gateway are configured in the public subnet

2. Database, application, and web servers are configured on three different private subnets.

3 The VPC has two route tables: one for the public subnet and one for all other subnets The route table for the public subnet has a 0

0 0 0/0 route to the internet gateway. The route table for all other subnets has a 0 0.0.0/0 route to the NAT gateway. All private subnets can route to each other.

4 Each subnet has a network ACL implemented that limits all inbound and outbound connectivity to only the required ports and protocols.

5 There are 3 Security Groups (SGs) database application and web. Each group limits all inbound and outbound connectivity to the minimum required. Which of the following accurately reflects the access control mechanisms the Architect should verify?

- A. Inbound SG configuration on database servers
Outbound SG configuration on application servers
Inbound and outbound network ACL configuration on the database subnet
Inbound and outbound network ACL configuration on the application server subnet
- B. **Outbound SG configuration on database servers** **Inbound SG configuration on application servers** **inbound and outbound network ACL configuration on the database subnet** **Inbound and outbound network ACL configuration on the application server subnet**
- C. Inbound and outbound SG configuration on database servers
Inbound and outbound SG configuration on application servers
Inbound network ACL configuration on the database subnet
Outbound network ACL configuration on the application server subnet
- D. Inbound SG configuration on database servers
Outbound SG configuration on application servers
Inbound network ACL configuration on the database subnet
Outbound network ACL configuration on the application server subnet.

Answer: B

Explanation:

This is the accurate reflection of the access control mechanisms that the Architect should verify. Access control mechanisms are methods that regulate who can access what resources and how. Security groups and network ACLs are two types of access control mechanisms that can be applied to EC2 instances and subnets. Security groups are stateful, meaning they remember and return traffic that was previously allowed. Network ACLs are stateless, meaning they do not remember or return traffic that was previously allowed. Security groups and network ACLs can have inbound and outbound rules that specify the source, destination, protocol, and port of the traffic. By verifying the outbound security group configuration on database servers, the inbound security group configuration on application servers, and the inbound and outbound network ACL configuration on both the database and application server subnets, the Architect can check if there are any misconfigurations or conflicts that prevent the application servers from initiating a connection to the database servers. The other options are either inaccurate or incomplete for verifying the access control mechanisms.

NEW QUESTION # 423

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

Answer: B

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 # 424

A company is implementing a new application in a new IAM account. A VPC and subnets have been created for the application. The application has been peered to an existing VPC in another account in the same IAM Region for database access. Amazon EC2 instances will regularly be created and terminated in the application VPC, but only some of them will need access to the databases in the peered VPC over TCP port 1521. A security engineer must ensure that only the EC2 instances that need access to the databases can access them through the network.

How can the security engineer implement this solution?

- A. Create a new security group in the application VPC with an inbound rule that allows the IP address range of the database VPC over TCP port 1521. Create a new security group in the database VPC with an inbound rule that allows the IP address range of the application VPC over port 1521. Attach the new security group to the database instances and the application instances that need database access.
- B. Create a new security group in the application VPC with an inbound rule that allows the IP address range of the database VPC over TCP port 1521. Add a new network ACL rule on the database subnets. Configure the rule to allow all traffic from the IP address range of the application VPC. Attach the new security group to the application instances that need database access.
- C. Create a new security group in the database VPC and create an inbound rule that allows all traffic from the IP address range of the application VPC. Add a new network ACL rule on the database subnets. Configure the rule to TCP port 1521 from the IP address range of the application VPC. Attach the new security group to the database instances that the application instances need to access.
- D. **Create a new security group in the application VPC with no inbound rules. Create a new security group in the database VPC with an inbound rule that allows TCP port 1521 from the new application security group in the application VPC. Attach the application security group to the application instances that need database access, and attach the database security group to the database instances.**

Answer: D

NEW QUESTION # 425

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