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We also fully consider the characteristics of the user on studying the SCS-C02 exam questions. For example, many people who choose to obtain a SCS-C02 certificate don't have a lot of time to prepare for the exam. Based on this point, our team of experts really took a lot of thought in the layout of the content. The contents of SCS-C02 Exam Materials are carefully selected by experts. We hope you can get the most effective knowledge in the shortest possible time.

Amazon SCS-C02 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 5	<ul style="list-style-type: none"> Infrastructure Security: Aspiring AWS Security specialists are trained to implement and troubleshoot security controls for edge services, networks, and compute workloads under this topic. Emphasis is placed on ensuring resilience and mitigating risks across AWS infrastructure. This section aligns closely with the exam's focus on safeguarding critical AWS services and environments.

Amazon AWS Certified Security - Specialty Sample Questions (Q279-Q284):

NEW QUESTION # 279

A company's data scientists want to create AI/ML training models using Amazon SageMaker. The training models will use large datasets in an Amazon S3 bucket. The datasets contain sensitive information. On average, the data scientists need 30 days to train models. The S3 bucket has been secured appropriately. The company's data retention policy states that all data older than 45 days must be removed from the S3 bucket.

- A. Configure an S3 Lifecycle rule on the S3 bucket to delete objects after 45 days.
- B. Create an AWS Lambda function to check the last-modified date of the S3 objects and delete objects that are older than 45 days. Create an S3 event notification to invoke the Lambda function for each PutObject operation.
- C. Configure S3 Intelligent-Tiering on the S3 bucket to automatically transition objects to another storage class.
- D. Create an AWS Lambda function to check the last-modified date of the S3 objects and delete objects that are older than 45 days. Create an Amazon EventBridge rule to invoke the Lambda function each month.

Answer: A

Explanation:

Comprehensive Detailed Explanation with all AWS References

The simplest and most efficient way to enforce a data retention policy in Amazon S3 is by using S3 Lifecycle rules:

* S3 Lifecycle Rule:

* Lifecycle rules allow you to automatically delete objects based on their age or last-modified date.

* Specify a rule to delete objects after 45 days to meet the retention policy.

NEW QUESTION # 280

A company is using AWS Organizations to manage multiple AWS accounts for its human resources, finance, software development, and production departments. All the company's developers are part of the software development AWS account.

The company discovers that developers have launched Amazon EC2 instances that were preconfigured with software that the company has not approved for use. The company wants to implement a solution to ensure that developers can launch EC2 instances with only approved software applications and only in the software development AWS account.

Which solution will meet these requirements?

- A. Use an AWS Service Catalog portfolio that contains EC2 products with appropriate AMIs that include only approved software. Grant the developers permission to access only the Service Catalog portfolio to launch a product in the software development account.
- B. In the software development account, create AMIs of preconfigured instances that include only approved software. Include the AMI IDs in the condition section of an AWS CloudFormation template to launch the appropriate AMI based on the AWS Region. Provide the developers with the CloudFormation template to launch EC2 instances in the software development account.
- C. Create an Amazon EventBridge rule that runs when any EC2 RunInstances API event occurs in the software development account. Specify AWS Systems Manager Run Command as a target of the rule. Configure Run Command to run a script that will install all approved software onto the instances that the developers launch.
- D. In the management account, create AMIs of preconfigured instances that include only approved software. Use AWS CloudFormation StackSets to launch the AMIs across any AWS account in the organization. Grant the developers permission to launch the stack sets within the management account.

Answer: A

NEW QUESTION # 281

A company is using IAM Secrets Manager to store secrets for its production Amazon RDS database. The Security Officer has asked that secrets be rotated every 3 months. Which solution would allow the company to securely rotate the secrets? (Select TWO.)

- A. Place the RDS instance in a private subnet and an IAM Lambda function inside the VPC in the private subnet. Configure a Secrets Manager interface endpoint. Schedule the Lambda function to run every 3 months to rotate the secrets.
- B. Place the RDS instance in a public subnet and an IAM Lambda function outside the VPC. Schedule the Lambda function to run every 3 months to rotate the secrets.
- C. Place the RDS instance in a private subnet and an IAM Lambda function inside the VPC in the private subnet. Schedule the Lambda function to run quarterly to rotate the secrets.
- D. Place the RDS instance in a private subnet and an IAM Lambda function outside the VPC. Configure the private subnet to use an internet gateway. Schedule the Lambda function to run every 3 months to rotate the secrets.
- E. Place the RDS instance in a private subnet and an IAM Lambda function inside the VPC in the private subnet. Configure the private subnet to use a NAT gateway. Schedule the Lambda function to run every 3 months to rotate the secrets.

Answer: A,E

Explanation:

Explanation

these are the solutions that can securely rotate the secrets for the production RDS database using Secrets Manager. Secrets Manager is a service that helps you manage secrets such as database credentials, API keys, and passwords. You can use Secrets Manager to rotate secrets automatically by using a Lambda function that runs on a schedule. The Lambda function needs to have access to both the RDS instance and the Secrets Manager service. Option B places the RDS instance in a private subnet and the Lambda function in the same VPC in another private subnet. The private subnet with the Lambda function needs to use a NAT gateway to access Secrets Manager over the internet. Option E places the RDS instance and the Lambda function in the same private subnet and configures a Secrets Manager interface endpoint, which is a private connection between the VPC and Secrets Manager. The other options are either insecure or incorrect for rotating secrets using Secrets Manager.

NEW QUESTION # 282

A company has deployed servers on Amazon EC2 instances in a VPC. External vendors access these servers over the internet. Recently, the company deployed a new application on EC2 instances in a new CIDR range. The company needs to make the application available to the vendors.

A security engineer verified that the associated security groups and network ACLs are allowing the required ports in the inbound direction. However, the vendors cannot connect to the application.

Which solution will provide the vendors access to the application?

- A. Modify the network ACL that is associated with the CIDR range to have the same outbound rules as inbound rules.
- B. **Modify the network ACL that is associated with the CIDR range to allow outbound traffic to ephemeral ports.**
- C. Modify the security group that is associated with the EC2 instances to have the same outbound rules as inbound rules.
- D. Modify the inbound rules on the internet gateway to allow the required ports.

Answer: B

Explanation:

The correct answer is B. Modify the network ACL that is associated with the CIDR range to allow outbound traffic to ephemeral ports.

This answer is correct because network ACLs are stateless, which means that they do not automatically allow return traffic for inbound connections. Therefore, the network ACL that is associated with the CIDR range of the new application must have outbound rules that allow traffic to ephemeral ports, which are the temporary ports used by the vendors' machines to communicate with the application servers. Ephemeral ports are typically in the range of 1024-655351. If the network ACL does not have such rules, the vendors will not be able to connect to the application.

The other options are incorrect because:

A . Modifying the security group that is associated with the EC2 instances to have the same outbound rules as inbound rules is not a solution, because security groups are stateful, which means that they automatically allow return traffic for inbound connections. Therefore, there is no need to add outbound rules to the security group for the vendors to access the application.

C . Modifying the inbound rules on the internet gateway to allow the required ports is not a solution, because internet gateways do not have inbound or outbound rules. Internet gateways are VPC components that enable communication between instances in a VPC and the internet. They do not filter traffic based on ports or protocols.

D . Modifying the network ACL that is associated with the CIDR range to have the same outbound rules as inbound rules is not a solution, because it does not address the issue of ephemeral ports. The outbound rules of the network ACL must match the ephemeral port range of the vendors' machines, not necessarily the inbound rules of the network ACL.

References:

1:Ephemeral port - Wikipedia
2:Security groups for your VPC - Amazon Virtual Private Cloud
3:Internet gateways - Amazon Virtual Private Cloud
4:Network ACLs - Amazon Virtual Private Cloud

NEW QUESTION # 283

A company runs a custom online gaming application. The company uses Amazon Cognito for user authentication and authorization. A security engineer wants to use AWS to implement fine-grained authorization on resources in the custom application. The security engineer must implement a solution that uses the user attributes that exist in Cognito. The company has already set up a user pool and an identity pool in Cognito.

Which solution will meet these requirements?

- A. Create a set of 1AM users and 1AM policies. Configure the Cognito user pool to assign users to the 1AM users.
- **B. Create a policy store in Amazon Verified Permissions. Configure Cognito as the identity source Map Cognito access tokens to the Verified Permissions schema.**
- C. Create a set of 1AM roles and 1AM policies. Configure the Cognito identity pool to assign users to the 1AM roles.
- D. Create customer managed permissions by using AWS Resource Access Manager (AWS RAM). Configure the Cognito identity pool to assign users to the customer managed permissions

Answer: B

NEW QUESTION # 284

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