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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">• 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.
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 (Q47-Q52):

NEW QUESTION # 47

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. Peer the Lambda default VPC with the VPC that hosts the DB instance to allow direct network access without the need for security groups
- B. 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
- C. 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
- 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: C

Explanation:

Explanation

This solution ensures that the Lambda functions are deployed inside the VPC and can communicate with the Amazon RDS DB instance securely. The security group attached to the Lambda functions only allows outbound traffic to the VPC CIDR range, and the DB instance security group only allows traffic from the Lambda security group. This solution ensures that the Lambda functions can communicate with the DB instance securely and that the DB instance is not exposed to the public internet.

NEW QUESTION # 48

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. Schedule the Lambda function to run quarterly 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. Configure a Secrets Manager interface endpoint. Schedule the Lambda function to run every 3 months 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: C,E

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 # 49

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 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. 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
- B. 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.
- C. 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
- D. 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

Answer: A

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 # 50

A company's IAM account consists of approximately 300 IAM users. Now there is a mandate that an access change is required for 100 IAM users to have unlimited privileges to S3. As a system administrator, how can you implement this effectively so that there is no need to apply the policy at the individual user level?

Please select:

- A. Create a policy and apply it to multiple users using a script
- B. Create an S3 bucket policy with unlimited access which includes each user's IAM account ID
- C. Create a new role and add each user to the IAM role
- D. Use the IAM groups and add users, based upon their role, to different groups and apply the policy to group

Answer: D

Explanation:

Option A is incorrect since you don't add a user to the IAM Role

Option C is incorrect since you don't assign multiple users to a policy. Option D is incorrect since this is not an ideal approach. An IAM group is used to collectively manage users who need the same set of permissions. By having groups, it becomes easier to manage permissions. So if you change the permissions on the group scale, it will affect all the users in that group. For more information on IAM Groups, just browse to the below URL:

https://docs.IAM.amazon.com/IAM/latest/UserGuide/id_roups.html

The correct answer is: Use the IAM groups and add users, based upon their role, to different groups and apply the policy to group. Submit your Feedback/Queries to our Experts

NEW QUESTION # 51

A company has an AWS Lambda function that creates image thumbnails from larger images. The Lambda function needs read and write access to an Amazon S3 bucket in the same AWS account.

Which solutions will provide the Lambda function this access? (Select TWO.)

- A. Create an IAM user that has only programmatic access. Create a new access key pair. Add environmental variables to the Lambda function with the access key ID and secret access key. Modify the Lambda function to use the environmental variables at run time during communication with Amazon S3.
- B. Create an IAM role for the Lambda function. Attach an IAM policy that allows access to the S3 bucket.
- C. Generate an Amazon EC2 key pair. Store the private key in AWS Secrets Manager. Modify the Lambda function to retrieve the private key from Secrets Manager and to use the private key during communication with Amazon S3.
- D. Create an IAM role for the Lambda function. Attach a bucket policy to the S3 bucket to allow access. Specify the function's IAM role as the principal.
- E. Create a security group. Attach the security group to the Lambda function. Attach a bucket policy that allows access to the S3 bucket through the security group ID.

Answer: B,D

NEW QUESTION # 52

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