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Amazon AWS Certified Security - Specialty Sample Questions (Q253-Q258):

NEW QUESTION # 253

An ecommerce company is developing new architecture for an application release. The company needs to implement TLS for incoming traffic to the application. Traffic for the application will originate from the internet TLS does not have to be implemented in an end-to-end configuration because the company is concerned about impacts on performance. The incoming traffic types will be HTTP and HTTPS The application uses ports 80 and 443.

What should a security engineer do to meet these requirements?

- A. Create a public Network Load Balancer. Create a listener on port 443. Create one target group. Create a rule to forward traffic from port 443 to the target group. Set the protocol for the listener on port 443 to TLS.
- **B. Create a public Application Load Balancer. Create two listeners one listener on port 80 and one listener on port 443. Create one target group. Create a rule to forward traffic from port 80 to the listener on port 443 Provision a public TLS certificate in AWS Certificate Manager (ACM). Attach the certificate to the listener on port 443.**
- C. Create a public Network Load Balancer. Create two listeners one listener on port 80 and one listener on port 443. Create one target group. Create a rule to forward traffic from port 80 to the listener on port 443. Set the protocol for the listener on port 443 to TLS.
- D. Create a public Application Load Balancer. Create two listeners one listener on port 80 and one listener on port 443. Create one target group. Create a rule to forward traffic from port 80 to the listener on port 443 Provision a public TLS certificate in AWS Certificate Manager (ACM). Attach the certificate to the listener on port 80.

Answer: B

Explanation:

An Application Load Balancer (ALB) is a type of load balancer that operates at the application layer (layer 7) of the OSI model. It can distribute incoming traffic based on the content of the request, such as the host header, path, or query parameters. An ALB can

also terminate TLS connections and decrypt requests from clients before sending them to the targets.

To implement TLS for incoming traffic to the application, the following steps are required:

Create a public ALB in a public subnet and register the EC2 instances as targets in a target group.

Create two listeners for the ALB, one on port 80 for HTTP traffic and one on port 443 for HTTPS traffic.

Create a rule for the listener on port 80 to redirect HTTP requests to HTTPS using the same host, path, and query parameters.

Provision a public TLS certificate in AWS Certificate Manager (ACM) for the domain name of the application. ACM is a service that lets you easily provision, manage, and deploy public and private SSL/TLS certificates for use with AWS services and your internal connected resources.

Attach the certificate to the listener on port 443 and configure the security policy to negotiate secure connections between clients and the ALB.

Configure the security groups for the ALB and the EC2 instances to allow inbound traffic on ports 80 and 443 from the internet and outbound traffic on any port to the EC2 instances.

This solution will meet the requirements of implementing TLS for incoming traffic without impacting performance or requiring end-to-end encryption. The ALB will handle the TLS termination and decryption, while forwarding unencrypted requests to the EC2 instances.

Verified References:

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/introduction.html>

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/create-https-listener.html>

<https://docs.aws.amazon.com/acm/latest/userguide/acm-overview.html>

NEW QUESTION # 254

An application is running on an Amazon EC2 instance that has an IAM role attached. The IAM role provides access to an AWS Key Management Service (AWS KMS) customer managed key and an Amazon S3 bucket.

The key is used to access 2 TB of sensitive data that is stored in the S3 bucket.

A security engineer discovers a potential vulnerability on the EC2 instance that could result in the compromise of the sensitive data.

Due to other critical operations, the security engineer cannot immediately shut down the EC2 instance for vulnerability patching.

What is the FASTEST way to prevent the sensitive data from being exposed?

- A. Revoke the IAM role's active session permissions. Update the S3 bucket policy to deny access to the IAM role. Remove the IAM role from the EC2 instance profile.
- B. Block access to the public range of S3 endpoint IP addresses by using a host-based firewall. Ensure that internet-bound traffic from the affected EC2 instance is routed through the host-based firewall.
- C. Disable the current key. Create a new KMS key that the IAM role does not have access to, and re-encrypt all the data with the new key. Schedule the compromised key for deletion.
- D. Download the data from the existing S3 bucket to a new EC2 instance. Then delete the data from the S3 bucket. Re-encrypt the data with a client-based key. Upload the data to a new S3 bucket.

Answer: C

NEW QUESTION # 255

A company runs workloads on Amazon EC2 instances in VPCs. The EC2 instances make requests to Amazon S3 buckets through VPC endpoints. The company uses AWS Organizations to manage its AWS accounts.

The company needs the requests from the EC2 instances to originate from the same VPC that the EC2 instance credentials were issued to.

Which solution will meet this requirement?

- A. Limit all actions in the S3 bucket policies by using the `aws:SourceVpc` condition key with the value to the allowed VPC ID.
- B. Limit all actions in the S3 bucket policies by using the `aws:SourceVpce` condition key with the value of the allowed VPC endpoint.
- C. Edit the VPC endpoints to include the S3: action with the `"aws:Ec2InstanceSourcePrivateIPv4": "${aws:VpcSourceIp}"` condition.
- D. Deploy an SCP that includes the S3: * action with the `"awsSourceVpc": "S {aws: Ec2InstanceSourceVpc}"` condition.

Answer: A

NEW QUESTION # 256

A security engineer has noticed an unusually high amount of traffic coming from a single IP address. This was discovered by analyzing the Application Load Balancer's access logs.

How can the security engineer limit the number of requests from a specific IP address without blocking the IP address?

- A. Add a rule to the Application Load Balancer to route the traffic originating from the IP address in question and show a static webpage.
- B. Implement the GeoLocation feature in Amazon Route 53.
- C. Use AWS Shield to limit the originating traffic hit rate.
- **D. Implement a rate-based rule with AWS WAF.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To mitigate traffic volume from a specific IP address without entirely blocking it, AWS WAF's rate-based rules are the appropriate solution. AWS WAF (Web Application Firewall) provides rate-based rules that allow a user to count and limit the rate of requests from individual IP addresses.

A rate-based rule tracks the number of requests that each originating IP makes in a rolling five-minute period. If the number of requests exceeds a specified threshold, WAF applies an action such as block or count.

This makes AWS WAF an ideal tool to throttle traffic rather than block it, which directly meets the use case described.

Reference from AWS Certified Security - Specialty Official Guide:

This capability is part of AWS WAF's standard feature set, explicitly covered under the topics of Logging and Monitoring and Mitigating DDoS and Abnormal Behavior. Rate-based rules are discussed as a method for limiting the number of incoming requests based on request patterns without denying access outright.

NEW QUESTION # 257

A company stores sensitive documents in Amazon S3 by using server-side encryption with an IAM Key Management Service (IAM KMS) CMK. A new requirement mandates that the CMK that is used for these documents can be used only for S3 actions.

Which statement should the company add to the key policy to meet this requirement?

- A.

```
{
  "Effect": "Deny",
  "Principal": "*",
  "Action": "kms:*",
  "Resource": "*",
  "Condition": {
    "StringNotEquals": {
      "kms:CallerAccount": "s3.amazonaws.com"
    }
  }
}
```

- B.

```
{
  "Effect": "Deny",
  "Principal": "*",
  "Action": "s3:*",
  "Resource": "*",
  "Condition": {
    "StringNotEquals": {
      "kms:ViaService": "kms.*amazonaws.com"
    }
  }
}
```

Answer: A

NEW QUESTION # 258

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