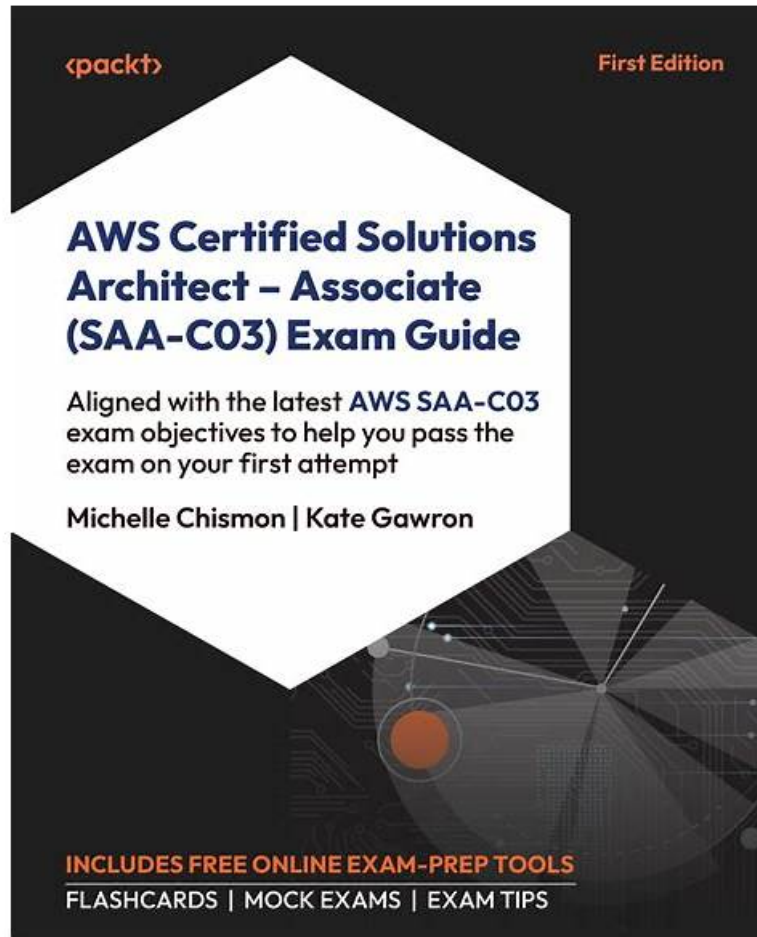


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The SAA-C03 exam covers a wide range of topics, including AWS core services, security, networking, storage, databases, and AWS architecture best practices. Candidates must have a strong understanding of AWS services, such as Amazon Elastic Compute Cloud (EC2), Amazon Simple Storage Service (S3), Amazon Relational Database Service (RDS), and Amazon Virtual Private Cloud (VPC), as well as the ability to design and deploy highly available and fault-tolerant systems on the AWS platform.

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Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q476-Q481):

NEW QUESTION # 476

A company hosts an application on Amazon EC2 On-Demand Instances in an Auto Scaling group. Application peak hours occur at the same time each day. Application users report slow application performance at the start of peak hours. The application performs normally 2-3 hours after peak hours begin.

The company wants to ensure that the application works properly at the start of peak hours. Which solution will meet these requirements?

- A. Configure a dynamic scaling policy for the Auto Scaling group to launch new instances based on CPU utilization.
- B. Configure a dynamic scaling policy for the Auto Scaling group to launch new instances based on memory utilization.
- C. Configure a scheduled scaling policy for the Auto Scaling group to launch new instances before peak hours.
- D. Configure an Application Load Balancer to distribute traffic properly to the Instances.

Answer: C

Explanation:

* Understanding the Requirement: The application experiences slow performance at the start of peak hours, but normalizes after a few hours. The goal is to ensure proper performance at the beginning of peak hours.

* Analysis of Options:

* Application Load Balancer: Ensures proper traffic distribution but does not address the need to have sufficient instances running at the start of peak hours.

* Dynamic Scaling Policy Based on Memory or CPU Utilization: While dynamic scaling reacts to usage metrics, it may not preemptively scale in anticipation of peak hours, leading to delays as new instances are launched and become available.

* Scheduled Scaling Policy: This allows the Auto Scaling group to launch instances ahead of time, ensuring that enough instances are available and ready to handle the increased load right at the start of peak hours.

* Best Solution:

* Scheduled Scaling Policy: This approach ensures that new instances are launched and ready before peak hours begin, addressing the slow performance issue at the start of peak periods.

References:

* Scheduled Scaling for Amazon EC2 Auto Scaling

NEW QUESTION # 477

A solutions architect is designing a VPC with public and private subnets. The VPC and subnets use IPv4 CIDR blocks. There is one public subnet and one private subnet in each of three Availability Zones (AZs) for high availability. An internet gateway is used to provide internet access for the public subnets. The private subnets require access to the internet to allow Amazon EC2 instances to download software updates.

What should the solutions architect do to enable Internet access for the private subnets?

- A. Create a second internet gateway on one of the private subnets. Update the route table for the private subnets that forward non-VPC traffic to the private internet gateway.
- B. Create an egress-only internet gateway on one of the public subnets. Update the route table for the private subnets that forward non-VPC traffic to the egress-only internet gateway.
- C. Create three NAT instances, one for each private subnet in each AZ. Create a private route table for each AZ that forwards non-VPC traffic to the NAT instance in its AZ.

- **D. Create three NAT gateways, one for each public subnet in each AZ. Create a private route table for each AZ that forwards non-VPC traffic to the NAT gateway in its AZ.**

Answer: D

Explanation:

<https://aws.amazon.com/about-aws/whats-new/2018/03/introducing-amazon-vpc-nat-gateway-in-the-aws-govcloud-aws-govcloud/>

<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-nat-comparison.html>

NEW QUESTION # 478

[Design High-Performing Architectures]

A company is deploying a new application on Amazon EC2 instances. The application writes data to Amazon Elastic Block Store (Amazon EBS) volumes. The company needs to ensure that all data that is written to the EBS volumes is encrypted at rest.

Which solution will meet this requirement?

- A. Create an EC2 instance tag that has a key of Encrypt and a value of True. Tag all instances that require encryption at the EBS level.
- **B. Create the EBS volumes as encrypted volumes. Attach the EBS volumes to the EC2 instances**
- C. Create an IAM role that specifies EBS encryption. Attach the role to the EC2 instances.
- D. Create an AWS Key Management Service (AWS KMS) key policy that enforces EBS encryption in the account. Ensure that the key policy is active

Answer: B

Explanation:

The solution that will meet the requirement of ensuring that all data that is written to the EBS volumes is encrypted at rest is B. Create the EBS volumes as encrypted volumes and attach the encrypted EBS volumes to the EC2 instances. When you create an EBS volume, you can specify whether to encrypt the volume. If you choose to encrypt the volume, all data written to the volume is automatically encrypted at rest using AWS-managed keys. You can also use customer-managed keys (CMKs) stored in AWS KMS to encrypt and protect your EBS volumes. You can create encrypted EBS volumes and attach them to EC2 instances to ensure that all data written to the volumes is encrypted at rest.

NEW QUESTION # 479

A company runs an application on a group of Amazon EC2 instances behind an Application Load Balancer (ALB). The company wants to protect the application against layer 7 DDoS attacks.

Which solution will meet this requirement?

- A. Create an AWS WAF web ACL and add a custom rule. Associate the web ACL with the ALB.
- B. Create an Amazon CloudFront distribution and set the ALB as the origin. Configure the application DNS record to point to the CloudFront distribution instead of the ALB.
- **C. Create an AWS WAF web ACL and add an AWS managed rule. Associate the web ACL with the ALB.**
- D. Associate AWS Shield Standard with the ALB.

Answer: C

Explanation:

Protecting an application from layer 7 (application layer) DDoS attacks is best achieved by using AWS WAF (Web Application Firewall), which provides customizable protection against common web exploits including DDoS attacks at the application layer. AWS WAF supports managed rule groups maintained by AWS, which offer robust, tested protections against OWASP top 10 vulnerabilities and common attack patterns without requiring extensive manual rule creation.

While AWS Shield Standard provides basic network-layer DDoS protection automatically at no additional charge, it does not offer application-layer filtering capabilities. Therefore, option A alone is insufficient.

Option B, involving only custom rules, requires significant operational overhead and expertise, whereas AWS managed rules offer a turnkey solution with ongoing updates from AWS security teams.

Option D, using CloudFront in front of the ALB, can provide additional protection benefits such as caching and geographic restrictions, but the question specifically asks for protecting against layer 7 DDoS on the ALB directly. CloudFront plus WAF is a valid enhanced solution, but the direct and recommended answer in AWS official documents is to use AWS WAF managed rules directly with ALB for application-level protection.

References:

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