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SAA-C03 Exam

AWS Certified Solutions Architect

Questions & Answers

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Question: 1

A Solutions Architect identified a series of DDoS attacks while monitoring the VPC. The Architect needs to fortify the current cloud infrastructure to protect the data of the clients.

Which of the following is the most suitable solution to mitigate these kinds of attacks?

- A. Using the AWS Firewall Manager, set up a security layer that will prevent SYN floods, UDP reflection attacks, and other DDoS attacks.
- B. Set up a web application firewall using AWS WAF to filter, monitor, and block HTTP traffic.
- C. A combination of Security Groups and Network Access Control Lists to only allow authorized traffic to access your VPC.
- D. Use AWS Shield Advanced to detect and mitigate DDoS attacks.

Answer: D

Explanation:

Question: 2

An online cryptocurrency exchange platform is hosted in AWS which uses ECS Cluster and RDS in Multi-AZ Deployments configuration. The application is heavily using the RDS instance to process complex read and write database operations. To maintain the reliability, availability, and performance of your systems, you have to closely monitor how the different processes or threads on a DB instance use the CPU, including the percentage of the CPU bandwidth and total memory consumed by each process.

Which of the following is the most suitable solution to properly monitor your database?

- A. Create a script that collects and publishes custom metrics to CloudWatch, which tracks the real-time CPU Utilization of the RDS instance, and then set up a custom CloudWatch dashboard to view the metrics.
- B. Check the CPU% and MEM% metrics which are readily available in the Amazon RDS console that shows the percentage of the CPU bandwidth and total memory consumed by each database process of your RDS instance.
- C. Use Amazon CloudWatch to monitor the CPU Utilization of your database.
- D. Enable Enhanced Monitoring in RDS.

Answer: D

Explanation:

Question: 3

A media company has two VPCs: VPC-1 and VPC-2 with peering connection between each other. VPC-1 only contains private subnets while VPC-2 only contains public subnets. The company uses a single AWS Direct Connect connection and a virtual interface to connect their on-premises network with VPC-1.

Which of the following options increase the fault tolerance of the connection to VPC-1? (Select TWO.)

- A. Establish a new AWS Direct Connect connection and private virtual interface in the same region as VPC-2.
- B. Establish another AWS Direct Connect connection and private virtual interface in the same AWS region as VPC-1.
- C. Establish a hardware VPN over the Internet between VPC-2 and the on-premises network.
- D. Use the AWS VPN CloudHub to create a new AWS Direct Connect connection and private virtual interface in the same region as VPC-2.
- E. Establish a hardware VPN over the Internet between VPC-1 and the on-premises network.

Answer: B, E

Question: 4

A company is hosting EC2 instances that are on non-production environment and processing non-priority batch loads, which can be interrupted at any time.

What is the best instance purchasing option which can be applied to your EC2 instances in this case?

- A. Spot Instances
- B. Reserved Instances
- C. On-Demand Instances
- D. On-Demand Capacity Reservations

Answer: A

Explanation:

Question: 5

Due to the large volume of query requests, the database performance of an online reporting application significantly slowed down. The Solutions Architect is trying to convince her client to use Amazon RDS Read Replica for their application instead of setting up a Multi-AZ Deployments configuration.

What are two benefits of using Read Replicas over Multi-AZ that the Architect should point out? (Select TWO.)

- A. Provides asynchronous replication and improves the performance of the primary database by taking read-heavy database workloads from it.
- B. It enhances the read performance of your primary database by increasing its IOPS and accelerates its query processing via AWS Global Accelerator.
- C. It elastically scales out beyond the capacity constraints of a single DB instance for read-heavy database workloads.
- D. Provides synchronous replication and automatic failover in the case of Availability Zone service failures.
- E. Allows both read and write operations on the read replica to complement the primary database.

Answer: A, C

Explanation:

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