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AWS-SOLUTION-ARCHITECT-ASSOCIATE EXAM **Amazon AWS Certified Solutions Architect - Associate (SAA-C01)** **2018**

Product: Demo File

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Question: 1

A solution architect is designing an application that will encrypt all data in an Amazon Redshift cluster. Which action will encrypt the data at rest?

- A. Place the Redshift KMS Default Cluster in a private subnet
- B. Use the AWS KMS Default Customer master key
- C. Encrypt the Amazon EBS volumes
- D. Encrypt the data using SSL/TLS

Answer: B

Explanation:

Reference: <https://docs.aws.amazon.com/redshift/latest/mgmt/working-with-db-encryption.html>

Question: 2

A Solution Architect is designing a solution with AWS Lambda where different environments require different database passwords. What should the Architect do to accomplish this in a secure and scalable way?

- A. Create a Lambda function for each individual environment
- B. Use Amazon DynamoDB to store environment variables
- C. Use encrypted AWS Lambda environment variables
- D. Implement a dedicated Lambda function for distributing environment variables

Answer: C

Question: 3

A company hosts a two-tier application that consists of a publicly accessible web server that communicates with a private database. Only HTTPS port 443 traffic to the web server must be allowed from the internet.

Which of the following options will achieve these requirements? (Select Two.)

- A. Security group rule that allows inbound internet traffic for port 443
- B. Security group rule that drives all inbound internet traffic except port 443
- C. Network ACL rule that allows port 443 inbound and all ports outbound for internet traffic
- D. Security group rule that allows internet traffic for port 443 in both inbound and outbound
- E. Network ACL rule that allows port 443 for both inbound and outbound for all Internet traffic

Answer: A, E

Question: 4

A company's website receives 50,000 requests each second, and the company wants to use multiple applications to analyze the navigation patterns of the users on their website so that the experience can be personalized.

What can a Solutions Architect use to collect page clicks for the website and process them sequentially for each user?

- A. Amazon Kinesis Stream
- B. Amazon SQS standard queue
- C. Amazon SQS FIFO queue
- D. AWS CloudTrail trail

Answer: A

Question: 5

A Solutions Architect is designing a solution that can monitor memory and disk space utilization of all Amazon EC2 instances running Amazon Linux and Windows. Which solution meets this requirement?

- A. Default Amazon CloudWatch metrics
- B. Custom Amazon CloudWatch metrics
- C. Amazon inspector resource monitoring
- D. Detailed monitoring of Amazon EC2 instances

Answer: A

Question: 6

A news organization plans to migrate their 20 TB video archive to AWS. The files are rarely accessed, but when they are a request is made in advance and a 3- to 5-hour retrieval time frame is acceptable. However, when there is a breaking news story, the editors require access to archived footage within minutes.

Which storage solution meets the needs of this organization while providing the LOWEST cost of storage?

- A. Store the archive in Amazon S3 Reduced Redundancy Storage.
- B. Store the archive in Amazon Glacier and use standard retrieval for all content
- C. Store the archive in Amazon Glacier and pay the additional charge for expedited retrieval when needed
- D. Store the archive in Amazon S3 with a lifecycle policy to move this to S3 Infrequent Access after 30 days.

Answer: A

Question: 7

A Solutions Architect is designing a solution that includes a managed VPN connection. To monitor whether the VPN connection is up or down, the Architect should use:

- A. an external service to ping the VPN endpoint from outside the VPC
- B. AWS CloudTrail to monitor the endpoint
- C. the CloudWatch TunnelState Metric
- D. an AWS Lambda function that parses the VPN connection logs.

Answer: C

Question: 8

A Solutions Architect has a multi-layer application running in Amazon VPC. The application has an ELB Classic Load Balancer as the front end in a public subnet, and an Amazon EC2-based reverse proxy that performs content-based routing to two backend Amazon EC2 instances hosted in a private subnet. The Architect sees tremendous traffic growth and is

concerned that the reverse proxy and current backend setup will be insufficient. Which actions should the Architect take to achieve a cost-effective solution that ensures the application automatically scales to meet traffic demand? (Select TWO)

- A. Replace the Amazon EC2 reverse proxy with an ELB internal Classic Load Balancer
- B. Add Auto Scaling to the Amazon EC2 backend fleet
- C. Add Auto Scaling to the Amazon EC2 reverse proxy layer
- D. Use t2 burstable instance types for the backend fleet
- E. Replace both the frontend and reverse proxy layers with an ELB Application Load Balancer

Answer: B, C

Question: 9

A Solution Architect is designing a new social media application. The application must provide a secure method for uploading profile photos. Each user should be able to upload a profile photo into a shared storage location for one week after their profile is created. Which approach will meet all of these requirements?

- A. Use Amazon Kinesis with AWS CloudTrail for auditing the specific times when profile photos are uploaded.
- B. Use Amazon EBS volumes with IAM policies restricting user access to specific time periods
- C. Use Amazon S3 with the default private access policy and generate pre-signed URLs each time a new site profile is created
- D. Use Amazon CloudFront with AWS CloudTrail for auditing the specific times when profile photos are uploaded.

Answer: C

Question: 10

A Solutions Architect is designing an application that requires having six Amazon EC2 instances running at all times. The application will be deployed in the sa-east-1 region, which has three Availability Zones: sa-east-1a, sa-east-1b, and sa-east-1c. Which action will provide 100 percent fault tolerance and the LOWEST cost in the event that one Availability Zone in the region becomes unavailable?

- A. Deploy six Amazon EC2 instances in sa-east-1a, six Amazon EC2 instances in sa-east-1b, and six Amazon EC2 instances in sa-east-1c.
- B. Deploy six Amazon EC2 instances in sa-east-1a, four Amazon EC2 instances in sa-east-1b, and two Amazon EC2 instances in sa-east-1c.
- C. Deploy three Amazon EC2 instances in sa-east-1a, three Amazon EC2 instances in sa-east-1b, and three Amazon EC2 instances in sa-east-1c.
- D. Deploy two Amazon EC2 instances in sa-east-1a, two Amazon EC2 instances in sa-east-1b, and two Amazon EC2 instances in sa-east-1c.

Answer: C

Question: 11

A company has a popular multi-player mobile game hosted in its on-premises datacenter. The current infrastructure can no longer keep up with demand and the company is considering a move to the cloud. Which solution should a Solutions Architect recommend as the MOST scalable and cost-effective solution to meet these needs?

- A. Amazon EC2 and an Application Load Balancer
- B. Amazon S3 and Amazon CloudFront
- C. Amazon EC2 and Amazon Elastic Transcoder
- D. AWS Lambda and Amazon API Gateway

Answer: A

Question: 12

To meet compliance standards, a company must have encrypted archival data storage. Data will be accessed infrequently, with lead times when in advance of when archived data must be recovered. The company requires that the storage be secure, durable and provided at the lowest price per 1TB of data stored.

What type of storage should be used?

- A. Amazon S3
- B. Amazon EBS
- C. Amazon Glacier
- D. Amazon EFS

Answer: C

Question: 13

A Solutions Architect notices slower response times from an application. The CloudWatch metrics on the MySQL RDS indicate Read IOPS are high and fluctuate significantly when the database is under load.

How should the database environment be re-designed to resolve the IOPS fluctuation?

- A. Change the RDS instance type to get more RAM.
- B. Change the storage type to Provisioned IOPS.
- C. Scale the web server tier horizontally.
- D. Split the DB layer into separate RDS instances.

Answer: B

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