



Vendor: Amazon

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QUESTION 1

An application provides a feature that allows users to securely download private and personal files. The web server is currently overwhelmed with serving files for download. A solutions architect must find a more effective solution to reduce web server load and costs and must allow users to download only their own files. Which solution meets all requirements?

- A. Store the files securely on Amazon S3 and have the application generate on Amazon S3 pre-signed URLs for the user to download.
- B. Store the files in an encrypted Amazon EBS volume, and use a separate set of servers to serve the downloads.
- C. Have the application encrypt the files and store them in the local Amazon EC2 instance storage prior to serving them up for download.
- D. Create an Amazon CloudFront distribution to distribute and cache the files.

Correct Answer: A

QUESTION 2

A company requires operating system permission on a relational database server. What should a Solutions Architect suggest as a configuration for a highly available database architecture?

- A. Multiple EC2 instances in a database replication configuration that uses two Availability Zones.
- B. A standalone Amazon EC2 instance with a selected database installed.
- C. Amazon RDS in a Multi-AZ configuration with Provisioned IOPS.
- D. Multiple EC2 instances in a replication configuration that uses two placement groups.

Correct Answer: A

QUESTION 3

A company is launching a new static website on Amazon S3 and Amazon CloudFront. The company wants to ensure that all requests go through only CloudFront. How can a Solutions Architect meet this requirement?

- A. Configure the S3 bucket policy to CloudFront IP address to read objects.
- B. Create an IAM user in a group that has read access to the S3 bucket. Configure CloudFront to pass credentials to the S3 bucket.
- C. Create CloudFront origin access identity (OAI), then update the S3 bucket policy to allow the OAI read access.
- D. Convert the S3 bucket to an EC2 instance, then give CloudFront access to the instance by using security groups.

Correct Answer: C

QUESTION 4

A Solutions Architect is designing a new architecture that will use an Amazon EC2 Auto Scaling group. Which of the following factors determine the health check grace period? (Select TWO.)

- A. How frequently the Auto Scaling group scales up or down.
- B. How many Amazon CloudWatch alarms are configured for status checks.
- C. How much of the application code is embedded in the AMI.
- D. How long it takes for the Auto Scaling group to detect a failure.
- E. How long the bootstrap script takes to run.

Correct Answer: CE

QUESTION 5

A Solutions Architect is trying to bring a data warehouse workload to an Amazon EC2 instance. The data will reside in Amazon EBS volumes and full table scans will be executed frequently. What type of Amazon EBS volume would be most suitable in this scenario?

- A. Throughput Optimized HDD (st1)
- B. Provisioned IOPS SSD (io1)
- C. General Purpose SSD (gp2)
- D. Cold HDD (sc1)

Correct Answer: A

QUESTION 6

A website keeps a record of user actions using a globally unique identifier (GUID) retrieved from Amazon Aurora in place of the user name within the audit record. Security protocols state that the GUID state that the GUID content must not leave the company's VPN. As the web traffic has increased, the number of web servers and Azure read replicas has also increased to keep up with the user record for the GUID. What should be done to reduce the number of read replicas required while improving performance?

- A. Keep the user name and GUID in memory on the web server instance so that the association can be remade on demand. Remove the record after 30 minutes.
- B. Deploy an Amazon ElastiCache for Redis server into the infrastructure and store the user name and GUID there. Retrieve the GUID from ElastiCache when required.
- C. Encrypt the GUID using Base64 and store it in the user's session cookie. Decrypt the GUID when an audit record is needed.
- D. Change the GUID to an MD5 hash of the user name, so that the value can be calculated on demand without referring to the database.

Correct Answer: B

QUESTION 7

A Solutions Architect has been given the following requirements for a company's VPC:

1. The solution is a two-tiered application with a web tier and a database tier.
2. All web traffic to the environment must be directed from the Internet to an Application Load Balancer.
3. The web servers and the databases should not obtain public IP addresses or be directly accessible from the public Internet.
4. Because of security requirements, databases may not share a route table or subnet with any other service.
5. The environment must be highly available within the same VPC for all services.

What is the minimum number of subnets that the Solutions Architect will need based on these requirements and best practices?

- A. 2
- B. 3
- C. 4
- D. 6

Correct Answer: C

QUESTION 8

A customer is migrating to AWS and requires applications to access Network File System shares without code changes. Data is critical and accessed frequently. Which storage solution should a Solutions Architect recommend to maximize availability and durability?

- A. Amazon EBS
- B. Amazon S3
- C. AWS Storage Gateway for files
- D. Amazon EFS

Correct Answer: D

QUESTION 9

When designing an Amazon SQS message-processing solution, messages in the queue must be processed before the maximum retention time has elapsed. Which actions will meet this requirement? (Choose two.)

- A. Use AWS STS to process the messages
- B. Use Amazon EBS-optimized Amazon EC2 instances to process the messages
- C. Use Amazon EC2 instances in an Auto Scaling group with scaling triggered based on the queue length
- D. Increase the SQS queue attribute for the message retention period
- E. Convert the SQS queue to a first-in first-out (FIFO) queue

Correct Answer: CD

QUESTION 10

A media company must store 10 TB of audio recordings. Retrieval happens infrequently and requestors agree on an 8-hour turnaround time. What is the MOST cost-effective solution to store the files?

- A. Amazon S3 Standard - Infrequent Access (Standard - IA)
- B. EBS Throughput Optimized HDD (st1)
- C. EBS Cold HDD (sc1)
- D. Amazon Glacier

Correct Answer: D

QUESTION 11

A Solutions Architect is designing a three-tier web application that includes an Auto Scaling group of Amazon EC2 instances running behind an ELB Classic Load Balancer. The security team requires that all web servers must be accessible only through the Load Balancer, and that none of the web servers are directly accessible from the Internet. How should the Architect meet these requirements?

- A. Use a Load Balancer installed on an Amazon EC2 instance.