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**Vendor:**Amazon

**Exam Code:**SAA-C02

**Exam Name:**AWS Certified Solutions Architect -  
Associate (SAA-C02)

**Version:**Demo

### QUESTION 1

A company wants to launch a new application using Amazon Route 53, an Application Load Balancer (ALB), and an Amazon EC2 Auto Scaling group. The company is preparing to perform user experience testing and has a limited budget for this phase of the project. Although the company plans to do a load test in the future, it wants to prevent users from load testing at this time because it wants to limit unnecessary EC2 automatic scaling. What should a solutions architect do to minimize costs of the user experience testing?

- A. Configure AWS Shield's client request threshold to 100 connections per client.
- B. Deploy AWS WAF on the ALB with a rate-based rule configured to limit the number of requests each client can make.
- C. Configure the ALB with an advanced request routing policy to throttle the client connections being sent to the Auto Scaling group.
- D. Deploy Amazon Simple Queue Service (Amazon SQS) between the ALB and Auto Scaling group to queue client requests and change the Auto Scaling group maximum size to one.

Correct Answer: B

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### QUESTION 2

A company stops a cluster of Amazon EC2 instances over a weekend. The costs decrease, but they do not drop to zero. Which resources could still be generating costs?

- A. Elastic IP address
- B. Data transfer out
- C. Regional data transfers
- D. Amazon Elastic Block Store (Amazon EBS) volumes
- E. AWS Auto Scaling

Correct Answer: AE

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### QUESTION 3

A company has three VPCs named Development, Testing and Production in the us-east-1 Region. The three VPCs need to be connected to an on-premises data center and are designed to be separate to maintain security and prevent any resource sharing. A solutions architect needs to find a scalable and secure solution.

What should the solutions architect recommend?

- A. Create an AWS Direct Connect connection and a VPN connection for each VPC to connect back to the data center.
- B. Create VPC peers from all the VPCs to the Production VPC. Use an AWS Direct Connect connection from the

Production VPC back to the data center

C. Connect VPN connections from all the VPCs to a VPN in the Production VPC. Use a VPN connection from the Production VPC back to the data center

D. Create a new VPC called Network Within the Network VPC create an AWS Transit Gateway with an AWS Direct Connect connection back to the data center Attach all the other VPCs to the Network VPC.

Correct Answer: D

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#### QUESTION 4

A solutions architect is designing a solution that requires frequent updates to a website that is hosted on Amazon S3 with versioning enabled. For compliance reasons, older versions of the objects will not be accessed frequently and will need to be deleted after 2 years. What should the solutions architect recommend to meet these requirements at the LOWEST cost?

A. Use S3 batch operations to replace object tags. Expire the objects based on the modified tags

B. Configure an S3 Lifecycle policy to transition older versions of objects to S3 Glacier. Expire the objects after 2 years

C. Enable S3 Event Notifications on the bucket that sends older objects to the Amazon Simple Queue Service (Amazon SQS) queue for further processing.

D. Replicate older object versions to a new bucket. Use an S3 Lifecycle policy to expire the objects In the new bucket after 2 years

Correct Answer: B

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#### QUESTION 5

A company hosts multiple production applications One of the applications consists of resources from Amazon EC2 AWS Lambda Amazon RDS Amazon Simple Notification Service (Amazon SNS), and Amazon Simple Queue Service (Amazon SQS) across multiple AWS Regions All company resources are tagged with a tag name of "application" and a value that corresponds to each application A solutions architect must provide the quickest solution for identifying all of the tagged components

Which solution meets these requirements?

A. Use AWS CloudTrail to generate a list of resources with the application tag

B. Use the AWS CLI to query each service across all Regions to report the tagged components

C. Run a query in Amazon CloudWatch Logs Insights to report on the components with the application tag

D. Run a query with the AWS Resource Groups Tag Editor to report on the resources globally with the application tag

Correct Answer: D

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## QUESTION 6

A company is migrating from an on-premises infrastructure to the AWS Cloud. One of the company's applications stores files on a Windows file server farm that uses Distributed File System Replication (DFSR) to keep data in sync. A solutions architect needs to replace the file server farm. Which service should the solutions architect use?

- A. Amazon EFS
- B. Amazon FSx
- C. Amazon S3
- D. AWS Storage Gateway

Correct Answer: B

Migrating Existing Files to Amazon FSx for Windows File Server Using AWS DataSync We recommend using AWS DataSync to transfer data between Amazon FSx for Windows File Server file systems. DataSync is a data transfer service that simplifies, automates, and accelerates moving and replicating data between on-premises storage systems and other AWS storage services over the internet or AWS Direct Connect. DataSync can transfer your file system data and metadata, such as ownership, time stamps, and access permissions. Reference: <https://docs.aws.amazon.com/fsx/latest/WindowsGuide/migrate-files-to-fsx-datasync.html>

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## QUESTION 7

A company plans to host a survey website on AWS. The company anticipates an unpredictable amount of traffic. This traffic results in asynchronous updates to the database. The company wants to ensure that writes to the database hosted on AWS do not get dropped.

How should the company write its application to handle these database requests?

- A. Configure the application to publish to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe the database to the SNS topic.
- B. Configure the application to subscribe to an Amazon Simple Notification Service (Amazon SNS) topic. Publish the database updates to the SNS topic.
- C. Use Amazon Simple Queue Service (Amazon SQS) FIFO queues to queue the database connection until the database has resources to write the data.
- D. Use Amazon Simple Queue Service (Amazon SQS) FIFO queues for capturing the writes and draining the queue as each write is made to the database.

Correct Answer: D

## QUESTION 8

To meet security requirements, a company needs to encrypt all of its application data in transit while communicating with an Amazon RDS MySQL DB instance. A recent security audit revealed that encryption at rest is enabled using AWS Key Management Service (AWS KMS), but data in transit is not enabled.

What should a solutions architect do to satisfy the security requirements?

- A. Enable IAM database authentication on the database.
- B. Provide self-signed certificates, Use the certificates in all connections to the RDS instance
- C. Take a snapshot of the RDS instance Restore the snapshot to a new instance with encryption enabled
- D. Download AWS-provided root certificates Provide the certificates in all connections to the RDS instance

Correct Answer: C

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Overview.Encryption.html#Overview.Encryption.Enabling>

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### QUESTION 9

A company's ecommerce website has unpredictable traffic and uses AWS Lambda functions to directly access a private Amazon RDS for PostgreSQL DB instance. The company wants to maintain predictable database performance and ensure that the Lambda invocations do not overload the database with too many connections.

What should a solutions architect do to meet these requirements?

- A. Point the client driver at an RDS custom endpoint Deploy the Lambda functions inside a VPC
- B. Point the client driver at an RDS proxy endpoint Deploy the Lambda functions inside a VPC
- C. Point the client driver at an RDS custom endpoint Deploy the Lambda functions outside a VPC
- D. Point the client driver at an RDS proxy endpoint Deploy the Lambda functions outside a VPC

Correct Answer: B

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### QUESTION 10

A company wants to migrate an on-premises data center to AWS. The data center hosts an SFTP server that stores its data on an NFS-based file system. The server holds 200 GB of data that needs to be transferred. The server must be hosted on an Amazon EC2 instance that uses an Amazon Elastic File System (Amazon EFS) file system

When combination of steps should a solutions architect take to automate this task? (Select TWO )

- A. Launch the EC2 instance into the same Availability Zone as the EFS file system
- B. install an AWS DataSync agent in the on-premises data center
- C. Create a secondary Amazon Elastic Block Store (Amazon EBS) volume on the EC2 instance for the data
- D. Manually use an operating system copy command to push the data to the EC2 instance
- E. Use AWS DataSync to create a suitable location configuration for the on-premises SFTP server

Correct Answer: CD

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### QUESTION 11

A company operates an ecommerce website on Amazon EC2 instances behind an Application Load Balancer (ALB) in an Auto Scaling group. The site is experiencing performance issues related to a high request rate from illegitimate external systems with changing IP addresses. The security team is worried about potential DDoS attacks against the website. The company must block the illegitimate incoming requests in a way that has a minimal impact on legitimate users. What should a solutions architect recommend?

- A. Deploy Amazon Inspector and associate it with the ALB.
- B. Deploy AWS WAF, associate it with the ALB, and configure a rate-limiting rule.
- C. Deploy rules to the network ACLs associated with the ALB to block the incoming traffic.
- D. Deploy Amazon GuardDuty and enable rate-limiting protection when configuring GuardDuty.

Correct Answer: B

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### QUESTION 12

A company recently launched a variety of new workloads on Amazon EC2 instances in its AWS account. The company needs to create a strategy to access and administer the instances remotely and securely. The company needs to implement a repeatable process that works with native AWS services and follows the AWS Well-Architected Framework.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Use the EC2 serial console to directly access the terminal interface of each instance for administration.
- B. Attach the appropriate IAM role to each existing instance and new instance. Use AWS Systems Manager Session Manager to establish a remote SSH session.
- C. Create an administrative SSH key pair. Load the public key into each EC2 instance. Deploy a bastion host in a public subnet to provide a tunnel for administration of each instance.
- D. Establish an AWS Site-to-Site VPN connection. Instruct administrators to use their local on-premises machines to connect directly to the instances by using SSH keys across the VPN tunnel.

Correct Answer: B

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