

# SAA-C02<sup>Q&As</sup>

AWS Certified Solutions Architect - Associate (SAA-C02)

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### QUESTION 1

A company needs guaranteed Amazon EC2 capacity in three specific Availability Zones in a specific AWS Region for an upcoming event that will last 1 week. What should the company do to guarantee the EC2 capacity?

- A. Purchase Reserved Instances that specify the Region needed.
- B. Create an On-Demand Capacity Reservation that specifies the Region needed.
- C. Purchase Reserved Instances that specify the Region and three Availability Zones needed.
- D. Create an On-Demand Capacity Reservation that specifies the Region and three Availability Zones needed.

Correct Answer: A Exam F

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### QUESTION 2

A company's packaged application dynamically creates and returns single-use text files in response to user requests. The company is using Amazon CloudFront for distribution, but wants to future reduce data transfer costs. The company modify the application's source code.

What should a solution architect do to reduce costs?

- A. Use Lambda adage to compress the files as they are sent to users.
- B. Enable Amazon S3 Transfer Acceleration to reduce the response times.
- C. Enable caching on the CloudFront distribution to store generated files at the edge.
- D. Use Amazon S3 multipart uploads to move the files to Amazon S3 before returning them to users.

Correct Answer: C

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### QUESTION 3

A company is planning to migrate 40 servers hosted on premises in VMware to the AWS Cloud. The migration process must be implemented with minimal downtime. The company also wants to test the servers before the cutover date.

Which solution meets these requirements?

- A. Deploy the AWS DataSync agent into the on-premises environment. Use DataSync to migrate the servers.
- B. Deploy an AWS Snowball device connected by way of RJ45 to the on-premises network. Use Snowball to migrate the servers.
- C. Deploy an AWS Database Migration service (AWS DMS) replication instance into AWS. Use AWS DMS to migrate

the servers.

D. Deploy the AWS Server Migration Service (AWS SMS) connector into the on-premises environment. Use AWS SMS to migrate the servers.

Correct Answer: A

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#### QUESTION 4

An online photo application lets users upload photos and perform image editing operations. The application offers two classes of service: free and paid. Photos submitted by paid users are processed before those submitted by free users. Photos are uploaded to Amazon S3 and the job information is sent to Amazon SQS. Which configuration should a solutions architect recommend?

A. Use one SQS FIFO queue. Assign a higher priority to the paid photos so they are processed first.

B. Use two SQS FIFO queues: one for paid and one for free. Set the free queue to use short polling and the paid queue to use long polling.

C. Use two SQS standard queues: one for paid and one for free. Configure Amazon EC2 instances to prioritize polling for the paid queue over the free queue.

D. Use one SQS standard queue. Set the visibility timeout of the paid photos to zero. Configure Amazon EC2 instances to prioritize visibility settings so paid photos are processed first.

Correct Answer: A

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#### QUESTION 5

A company stores project information in a shared spreadsheet. The company wants to create a web application to replace the spreadsheet. The company has chosen Amazon DynamoDB to store the spreadsheet's data and is designing the web application to display the project information that is obtained from DynamoDB.

A solutions architect must design the web application's backend by using managed services that require minimal operational maintenance.

Which architectures meet these requirements? (Select TWO.)

A. An Amazon API Gateway REST API accesses the project information that is in DynamoDB.

B. An Elastic Load Balancer forwards requests to a target group with DynamoDB set up as the target.

C. An Amazon API Gateway REST API invokes an AWS Lambda function. The Lambda function accesses DynamoDB.

D. An Amazon Route 53 hosted zone routes requests to an AWS Lambda endpoint to invoke a Lambda function that accesses DynamoDB.

E. An Elastic Load Balancer forwards requests to a target group of Amazon EC2 instances. The EC2 instances run an application that accesses DynamoDB.

Correct Answer: AE

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#### QUESTION 6

A company is running a publicly accessible serverless application that uses Amazon API Gateway and AWS Lambda

The application's traffic recently spiked due to fraudulent requests from botnets.

Which steps should a solutions architect take to block requests from unauthorized users? (Select TWO.)

- A. Create a usage plan with an API key that is shared with genuine users only.
- B. Integrate logic within the Lambda function to ignore the requests from fraudulent addresses.
- C. Implement an AWS WAF rule to target malicious requests and trigger actions to filter them out.
- D. Convert the existing public API to a private API. Update the DNS records to redirect users to the new API endpoint.
- E. Create an IAM role for each user attempting to access the API. A user will assume the role when making the API call.

Correct Answer: BE

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#### QUESTION 7

A company is running a global application. The application's users submit multiple videos that are then merged into a single video file. The application uses a single Amazon..... to receive uploads from users. The same S3 bucket provides the download location of the single video file that is produced. The final video file output has an average size of.....

The company needs to develop a solution that delivers faster uploads and downloads of the video files that are stored in Amazon S3. The company will offer the solution as a pay for the increased speed.

What should a solutions architect do to meet these requirements?

- A. Enable AWS Global Accelerator for the S3 endpoint. Adjust the application's upload and download links to use the Global Accelerator S3 endpoint for users who
- B. Enable S3 Cross-Region Replication to S3 buckets in all other AWS Regions. Use an Amazon Route 53 geolocation routing policy to route S3 requests based on th.....subscription.
- C. Create an Amazon CloudFront distribution, and use the S3 bucket in us-east-1 as an origin. Adjust the application to use the CloudFront URL as the upload and do.....subscription.
- D. Enable S3 Transfer Acceleration for the S3 bucket in us-east-1. Configure the application to use the bucket's S3-accelerate endpoint domain name for the upload at..... have a subscription.

Correct Answer: D

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#### QUESTION 8

An online retailer has a series of flash sales occurring every Friday Sales Traffic will increase during the sales only and

the platform will handle the increased load. The platform is a three-tier application. The web tier runs on Amazon EC2 instances behind an Application Load Balancer. Amazon CloudFront is used to reduce web server load, but many requests for dynamic content must go to the web servers. What should be done to the web tier to reduce costs without impacting performance or reliability?

- A. Use T-series instances
- B. Purchase scheduled Reserved instances.
- C. Implement Amazon ElasticCache
- D. Use Spot instances.

Correct Answer: A

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#### QUESTION 9

A company is using AWS Organizations with two AWS accounts: Logistics and Sales. The Logistics account operates an Amazon Redshift cluster. The Sales account includes Amazon EC2 instances. The Sales account needs to access the Logistics account's Amazon Redshift cluster.

What should a solutions architect recommend to meet this requirement MOST cost-effectively?

- A. Set up VPC sharing with the Logistics account as the owner and the Sales account as the participant to transfer the data.
- B. Create an AWS Lambda function in the Logistics account to transfer data to the Amazon EC2 instances in the Sales account.
- C. Create a snapshot of the Amazon Redshift cluster, and share the snapshot with the Sales account. In the Sales account, restore the cluster by using the snapshot ID that is shared by the Logistics account.
- D. Run COPY commands to load data from Amazon Redshift into Amazon S3 buckets in the Logistics account. Grant permissions to the Sales account to access the S3 buckets of the Logistics account.

Correct Answer: C

Reference: <https://docs.aws.amazon.com/redshift/latest/mgmt/managing-snapshots-console.html>

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#### QUESTION 10

A company has an Amazon EC2 instance running on a private subnet that needs to access a public websites to download patches and updates. The company does not want external websites to see the EC2 instance IP address or initiate connection to it.

How can a solution architect achieve this objective?

- A. Create a site-to-site VPN connection between the private subnet and the network in which the public site is deployed
- B. Create a NAT gateway in a public subnet Route outbound traffic from the private subnet through the NAT gateway
- C. Create a network ACL for the private subnet where the EC2 instance deployed only allows access from the IP address range of the public website

D. Create a security group that only allows connections from the IP address range of the public website. Attach the security group to the EC2 instance.

Correct Answer: B

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#### QUESTION 11

A company has two VPCs named Management and Production. The Management VPC uses VPNs through a customer gateway to connect to a single device in the data center. The Production VPC uses a virtual private gateway with two attached AWS Direct Connect connections. The Management and Production VPCs both use a single VPC peering connection to allow communication between the applications.

What should a solutions architect do to mitigate any single point of failure in this architecture?

- A. Add a set of VPNs between the Management and Production VPCs.
- B. Add a second virtual private gateway and attach it to the Management VPC.
- C. Add a second set of VPNs to the Management VPC from a second customer gateway device.
- D. Add a second VPC peering connection between the Management VPC and the Production VPC.

Correct Answer: A

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#### QUESTION 12

A company is creating a web application that will store a large number of images in Amazon S3. The images will be accessed by users over variable periods of time. The company wants to:

1.  
Retain all the images
2.  
Incur no cost for retrieval.
3.  
Have minimal management overhead.
4.  
Have the images available with no impact on retrieval time.

Which solution meets these requirements?

- A. Implement S3 Intelligent-Tiering
- B. Implement S3 storage class analysis
- C. Implement an S3 Lifecycle policy to move data to S3 Standard-Infrequent Access (S3 Standard-IA).

D. Implement an S3 Lifecycle policy to move data to S3 One Zone-Infrequent Access (S3 One Zone-IA).

Correct Answer: A

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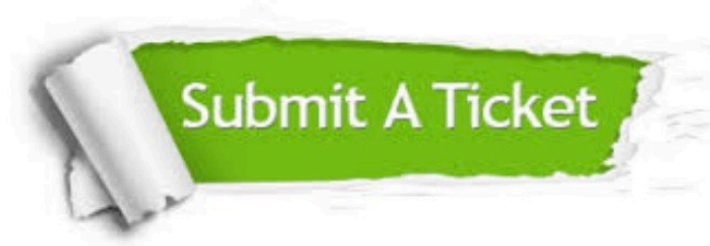
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