

# SAP-C01<sup>Q&As</sup>

AWS Certified Solutions Architect - Professional (SAP-C01)

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**QUESTION 1**

A financial services company in North America plans to release a new online web application to its customers on AWS. The company will launch the application in the us-east-1 Region on Amazon EC2 instances. The application must be highly available and must dynamically scale to meet user traffic. The company also wants to implement a disaster recovery environment for the application in the us-west-1 Region by using active-passive failover.

Which solution will meet these requirements?

A. Create a VPC in us-east-1 and a VPC in us-west-1. Configure VPC peering. In the us-east-1 VPC, create an Application Load Balancer (ALB) that extends across multiple Availability Zones in both

VPCs. Create an Auto Scaling group that deploys the EC2 instances across the multiple Availability

Zones in both VPCs. Place the Auto Scaling group behind the ALB.

B. Create a VPC in us-east-1 and a VPC in us-west-1. In the us-east-1 VPC, create an Application Load Balancer (ALB) that extends across multiple Availability Zones in that VPC. Create an Auto Scaling group that deploys the EC2 instances across the multiple Availability Zones in the us-east-1 VPC. Place the Auto Scaling group behind the ALB. Set up the same configuration in the us-west-1 VPC. Create an Amazon Route 53 hosted zone. Create separate records for each ALB. Enable health checks to ensure high availability between Regions.

C. Create a VPC in us-east-1 and a VPC in us-west-1. In the us-east-1 VPC, create an Application Load Balancer (ALB) that extends across multiple Availability Zones in that VPC. Create an Auto Scaling group that deploys the EC2 instances across the multiple Availability Zones in the us-east-1 VPC. Place the Auto Scaling group behind the ALB. Set up the same configuration in the us-west-1 VPC. Create an Amazon Route 53 hosted zone. Create separate records for each ALB. Enable health checks and configure a failover routing policy for each record.

D. Create a VPC in us-east-1 and a VPC in us-west-1. Configure VPC peering. In the us-east-1 VPC, create an Application Load Balancer (ALB) that extends across multiple Availability Zones in both VPCs. Create an Auto Scaling group that deploys the EC2 instances across the multiple Availability Zones in both VPCs. Place the Auto Scaling group behind the ALB. Create an Amazon Route 53 hosted zone. Create a record for the ALB.

Correct Answer: C

**QUESTION 2**

A company's lease of a colocated storage facility will expire in 90 days. The company wants to move to AWS to avoid signing a contract extension. The company's environment consists of 200 virtual machines and a NAS with 40 TB of data. Most of the data is archival, yet instant access is required when data is requested. Leadership wants to ensure minimal downtime during the migration. Each virtual machine has a number of customized configurations. The company's existing 1 Gbps network connection is mostly idle, especially after business hours.

Which combination of steps should the company take to migrate to AWS while minimizing downtime and operational impact? (Choose two.)

A. Use new Amazon EC2 instances and reinstall all application code.

B. Use AWS SMS to migrate the virtual machines.

C. Use AWS Storage Gateway to migrate the data to cloud-native storage.

D. Use AWS Snowball to migrate the data.

E. Use AWS SMS to copy the infrequently accessed data from the NAS.

Correct Answer: AD

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### QUESTION 3

A company has developed a new release of a popular video game and wants to make it available for public download. The new release package is approximately 5 GB in size. The company provides downloads for existing releases from a Linux-based, publicly facing FTP site hosted in an on-premises data center. The company expects the new release will be downloaded by users worldwide. The company wants a solution that provides improved download performance and low transfer costs, regardless of a user's location.

Which solutions will meet these requirements?

- A. Store the game files on Amazon EBS volumes mounted on Amazon EC2 instances within an Auto Scaling group. Configure an FTP service on the EC2 instances. Use an Application Load Balancer in front of the Auto Scaling group. Publish the game download URL for users to download the package.
- B. Store the game files on Amazon EFS volumes that are attached to Amazon EC2 instances within an Auto Scaling group. Configure an FTP service on each of the EC2 instances. Use an Application Load Balancer in front of the Auto Scaling group. Publish the game download URL for users to download the package.
- C. Configure Amazon Route 53 and an Amazon S3 bucket for website hosting. Upload the game files to the S3 bucket. Use Amazon CloudFront for the website. Publish the game download URL for users to download the package.
- D. Configure Amazon Route 53 and an Amazon S3 bucket for website hosting. Upload the game files to the S3 bucket. Set Requester Pays for the S3 bucket. Publish the game download URL for users to download the package.

Correct Answer: C

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### QUESTION 4

An auction website enables users to bid on collectible items. The auction rules require that each bid is processed only once and in the order it was received. The current implementation is based on a fleet of Amazon EC2 web servers that write bid records into Amazon Kinesis Data Streams. A single t2.large instance has a cron job that runs the bid processor, which reads incoming bids from Kinesis Data Streams and processes each bid. The auction site is growing in popularity, but users are complaining that some bids are not registering.

Troubleshooting indicates that the bid processor is too slow during peak demand hours, sometimes crashes while processing, and occasionally loses track of which records is being processed.

What changes should make the bid processing more reliable?

- A. Refactor the web application to use the Amazon Kinesis Producer Library (KPL) when posting bids to Kinesis Data Streams. Refactor the bid processor to flag each record in Kinesis Data Streams as being unread, processing, and processed. At the start of each bid processing run, scan Kinesis Data Streams for unprocessed records.
- B. Refactor the web application to post each incoming bid to an Amazon SNS topic in place of Kinesis Data Streams. Configure the SNS topic to trigger an AWS Lambda function that processes each bid as soon as a user submits it.
- C. Refactor the web application to post each incoming bid to an Amazon SQS FIFO queue in place of Kinesis Data Streams. Refactor the bid processor to continuously the SQS queue. Place the bid processing EC2 instance in an Auto Scaling group with a minimum and a maximum size of 1.

D. Switch the EC2 instance type from t2.large to a larger general compute instance type. Put the bid processor EC2 instances in an Auto Scaling group that scales out the number of EC2 instances running the bid processor, based on the IncomingRecords metric in Kinesis Data Streams.

Correct Answer: C

Reference: [https://d0.awsstatic.com/whitepapers/Building\\_a\\_Real\\_Time\\_Bidding\\_Platform\\_on\\_AWS\\_v1\\_Final.pdf](https://d0.awsstatic.com/whitepapers/Building_a_Real_Time_Bidding_Platform_on_AWS_v1_Final.pdf)

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#### QUESTION 5

A Solutions Architect is designing the storage layer for a data warehousing application. The data files are large, but they have statically placed metadata at the beginning of each file that describes the size and placement of the file's index. The data files are read in by a fleet of Amazon EC2 instances that store the index size, index location, and other category information about the data file in a database. That database is used by Amazon EMR to group files together for deeper analysis.

What would be the MOST cost-effective, high availability storage solution for this workflow?

- A. Store the data files in Amazon S3 and use Range GET for each file's metadata, then index the relevant data.
- B. Store the data files in Amazon EFS mounted by the EC2 fleet and EMR nodes.
- C. Store the data files on Amazon EBS volumes and allow the EC2 fleet and EMR to mount and unmount the volumes where they are needed.
- D. Store the content of the data files in Amazon DynamoDB tables with the metadata, index, and data as their own keys.

Correct Answer: A

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