



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

AWS Certified Solutions Architect - Professional

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## QUESTION 1

A company runs a content management application on a single Windows Amazon EC2 instance in a development environment. The application reads and writes static content to a 2 TB Amazon Elastic Block Store (Amazon EBS) volume that is attached to the instance as the root device. The company plans to deploy this application in production as a highly available and fault-tolerant solution that runs on at least three EC2 instances across multiple Availability Zones.

A solutions architect must design a solution that joins all the instances that run the application to an Active Directory domain. The solution also must implement Windows ACLs to control access to file contents. The application always must maintain exactly the same content on all running instances at any given point in time.

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

- A. Create an Amazon Elastic File System (Amazon EFS) file share. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Implement a user data script to install the application, join the instance to the AD domain, and mount the EFS file share.
- B. Create a new AMI from the current EC2 instance that is running. Create an Amazon FSx for Lustre file system. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Implement a user data script to join the instance to the AD domain and mount the FSx for Lustre file system.
- C. Create an Amazon FSx for Windows File Server file system. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Implement a user data script to install the application and mount the FSx for Windows File Server file system. Perform a seamless domain join to join the instance to the AD domain.
- D. Create a new AMI from the current EC2 instance that is running. Create an Amazon Elastic File System (Amazon EFS) file system. Create an Auto Scaling group that extends across three Availability Zones and maintains a minimum size of three instances. Perform a seamless domain join to join the instance to the AD domain.

Correct Answer: C

<https://docs.aws.amazon.com/fsx/latest/WindowsGuide/what-is.html>

[https://docs.aws.amazon.com/directoryservice/latest/admin-guide/ms\\_ad\\_join\\_instance.html](https://docs.aws.amazon.com/directoryservice/latest/admin-guide/ms_ad_join_instance.html)

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## QUESTION 2

A video processing company wants to build a machine learning (ML) model by using 600 TB of compressed data that is stored as thousands of files in the company's on-premises network attached storage system. The company does not have the necessary compute resources on premises for ML experiments and wants to use AWS.

The company needs to complete the data transfer to AWS within 3 weeks. The data transfer will be a one-time transfer. The data must be encrypted in transit. The measured upload speed of the company's internet connection is 100 Mbps, and multiple departments share the connection.

Which solution will meet these requirements MOST cost-effectively?

- A. Order several AWS Snowball Edge Storage Optimized devices by using the AWS Management Console. Configure the devices with a destination S3 bucket. Copy the data to the devices. Ship the devices back to AWS.
- B. Set up a 10 Gbps AWS Direct Connect connection between the company location and the nearest AWS Region. Transfer the data over a VPN connection into the Region to store the data in Amazon S3.



C. Create a VPN connection between the on-premises network storage and the nearest AWS Region. Transfer the data over the VPN connection.

D. Deploy an AWS Storage Gateway file gateway on premises. Configure the file gateway with a destination S3 bucket. Copy the data to the file gateway.

Correct Answer: A

This solution will meet the requirements of the company as it provides a secure, cost-effective and fast way of transferring large data sets from on-premises to AWS. Snowball Edge devices encrypt the data during transfer, and the devices are shipped back to AWS for import into S3. This option is more cost effective than using Direct Connect or VPN connections as it does not require the company to pay for long-term dedicated connections.

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### QUESTION 3

A solutions architect is reviewing a company's process for taking snapshots of Amazon RDS DB instances. The company takes automatic snapshots every day and retains the snapshots for 7 days.

The solutions architect needs to recommend a solution that takes snapshots every 6 hours and retains the snapshots for 30 days. The company uses AWS Organizations to manage all of its AWS accounts. The company needs a consolidated view of the health of the RDS snapshots.

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

A. Turn on the cross-account management feature in AWS Backup. Create a backup plan that specifies the frequency and retention requirements. Add a tag to the DB instances. Apply the backup plan by using tags. Use AWS Backup to monitor the status of the backups.

B. Turn on the cross-account management feature in Amazon RDS. Create a snapshot global policy that specifies the frequency and retention requirements. Use the RDS console in the management account to monitor the status of the backups.

C. Turn on the cross-account management feature in AWS CloudFormation. From the management account, deploy a CloudFormation stack set that contains a backup plan from AWS Backup that specifies the frequency and retention requirements. Create an AWS Lambda function in the management account to monitor the status of the backups. Create an Amazon EventBridge rule in each account to run the Lambda function on a schedule.

D. Configure AWS Backup in each account. Create an Amazon Data Lifecycle Manager lifecycle policy that specifies the frequency and retention requirements. Specify the DB instances as the target resource. Use the Amazon Data Lifecycle Manager console in each member account to monitor the status of the backups.

Correct Answer: A

Turning on the cross-account management feature in AWS Backup will enable managing and monitoring backups across multiple AWS accounts that belong to the same organization in AWS Organizations<sup>1</sup>. Creating a backup plan that specifies the frequency and retention requirements will enable taking snapshots every 6 hours and retaining them for 30 days<sup>2</sup>. Adding a tag to the DB instances will enable applying the backup plan by using tags<sup>2</sup>. Using AWS Backup to monitor the status of the backups will enable having a consolidated view of the health of the RDS snapshots<sup>1</sup>.

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### QUESTION 4

A solutions architect is responsible (or redesigning a legacy Java application to improve its availability, data durability, and scalability. Currently, the application runs on a single high- memory Amazon EC2 instance. It accepts HTTP



requests from upstream clients, adds them to an in-memory queue, and responds with a 200 status. A separate application thread reads items from the queue, processes them, and persists the results to an Amazon RDS MySQL instance. The processing time for each item takes 90 seconds on average, most of which is spent waiting on external service calls, but the application is written to process multiple items in parallel.

Traffic to this service is unpredictable. During periods of high load, items may sit in the internal queue for over an hour while the application processes the backlog. In addition, the current system has issues with availability and data loss if the single application node fails.

Clients that access this service cannot be modified. They expect to receive a response to each HTTP request they send within 10 seconds before they will time out and retry the request.

Which approach would improve the availability and durability of the system while decreasing the processing latency and minimizing costs?

A. Create an Amazon API Gateway REST API that uses Lambda proxy integration to pass requests to an AWS Lambda function. Migrate the core processing code to a Lambda function and write a wrapper class that provides a handler method that converts the proxy events to the internal application data model and invokes the processing module.

B. Create an Amazon API Gateway REST API that uses a service proxy to put items in an Amazon SQS queue. Extract the core processing code from the existing application and update it to pull items from Amazon SQS instead of an in-memory queue. Deploy the new processing application to smaller EC2 instances within an Auto Scaling group that scales dynamically based on the approximate number of messages in the Amazon SQS queue.

C. Modify the application to use Amazon DynamoDB instead of Amazon RDS. Configure Auto Scaling for the DynamoDB table. Deploy the application within an Auto Scaling group with a scaling policy based on CPU utilization. Back the in-memory queue with a memory-mapped file to an instance store volume and periodically write that file to Amazon S3.

D. Update the application to use a Redis task queue instead of the in-memory queue. Build a Docker container image for the application. Create an Amazon ECS task definition that includes the application container and a separate container to host Redis. Deploy the new task definition as an ECS service using AWS Fargate, and enable Auto Scaling.

Correct Answer: B

The obvious challenges here are long workloads, scalability based on queue load, and reliability. Almost always the defacto answer to queue related workload is SQS. Since the workloads are very long (90 minutes) Lambdas cannot be used (15 mins max timeout). So, autoscaled smaller EC2 nodes that wait on external services to complete the task makes more sense. If the task fails, the message is returned to the queue and retried.

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## QUESTION 5

A company has an application in the AWS Cloud. The application runs on a fleet of 20 Amazon EC2 instances. The EC2 instances are persistent and store data on multiple attached Amazon Elastic Block Store (Amazon EBS) volumes.

The company must maintain backups in a separate AWS Region. The company must be able to recover the EC2 instances and their configuration within 1 business day, with loss of no more than 1 day's worth of data. The company has limited staff and needs a backup solution that optimizes operational efficiency and cost. The company already has created an AWS CloudFormation template that can deploy the required network configuration in a secondary Region.

Which solution will meet these requirements?

A. Create a second CloudFormation template that can recreate the EC2 instances in the secondary Region. Run daily multivolume snapshots by using AWS Systems Manager Automation runbooks. Copy the snapshots to the secondary



Region. In the event of a failure, launch the CloudFormation templates, restore the EBS volumes from snapshots, and transfer usage to the secondary Region.

B. Use Amazon Data Lifecycle Manager (Amazon DLM) to create daily multivolume snapshots of the EBS volumes. In the event of a failure, launch the CloudFormation template and use Amazon DLM to restore the EBS volumes and transfer usage to the secondary Region.

C. Use AWS Backup to create a scheduled daily backup plan for the EC2 instances. Configure the backup task to copy the backups to a vault in the secondary Region. In the event of a failure, launch the CloudFormation template, restore the instance volumes and configurations from the backup vault, and transfer usage to the secondary Region.

D. Deploy EC2 instances of the same size and configuration to the secondary Region. Configure AWS DataSync daily to copy data from the primary Region to the secondary Region. In the event of a failure, launch the CloudFormation template and transfer usage to the secondary Region.

Correct Answer: C

Using AWS Backup to create a scheduled daily backup plan for the EC2 instances will enable taking snapshots of the EC2 instances and their attached EBS volumes<sup>1</sup>. Configuring the backup task to copy the backups to a vault in the secondary Region will enable maintaining backups in a separate Region<sup>1</sup>. In the event of a failure, launching the CloudFormation template will enable deploying the network configuration in the secondary Region<sup>2</sup>. Restoring the instance volumes and configurations from the backup vault will enable recovering the EC2 instances and their data<sup>1</sup>. Transferring usage to the secondary Region will enable resuming operations<sup>2</sup>.

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