

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

AWS Certified Solutions Architect - Professional

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## QUESTION 1

A company runs an application on AWS. The company curates data from several different sources. The company uses proprietary algorithms to perform data transformations and aggregations. After the company performs ETL processes, the company stores the results in Amazon Redshift tables. The company sells this data to other companies. The company downloads the data as files from the Amazon Redshift tables and transmits the files to several data customers by using FTP. The number of data customers has grown significantly. Management of the data customers has become difficult.

The company will use AWS Data Exchange to create a data product that the company can use to share data with customers. The company wants to confirm the identities of the customers before the company shares data. The customers also need access to the most recent data when the company publishes the data.

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

- A. Use AWS Data Exchange for APIs to share data with customers. Configure subscription verification. In the AWS account of the company that produces the data, create an Amazon API Gateway Data API service integration with Amazon Redshift. Require the data customers to subscribe to the data product.
- B. In the AWS account of the company that produces the data, create an AWS Data Exchange datashare by connecting AWS Data Exchange to the Redshift cluster. Configure subscription verification. Require the data customers to subscribe to the data product.
- C. Download the data from the Amazon Redshift tables to an Amazon S3 bucket periodically. Use AWS Data Exchange for S3 to share data with customers. Configure subscription verification. Require the data customers to subscribe to the data product.
- D. Publish the Amazon Redshift data to an Open Data on AWS Data Exchange. Require the customers to subscribe to the data product in AWS Data Exchange. In the AWS account of the company that produces the data, attach IAM resource-based policies to the Amazon Redshift tables to allow access only to verified AWS accounts.

Correct Answer: B

According to <https://aws.amazon.com/data-exchange/why-aws-data-exchange/redshift-data-tables/>

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## QUESTION 2

A company is running an application in the AWS Cloud. The application runs on containers in an Amazon Elastic Container Service (Amazon ECS) cluster. The ECS tasks use the Fargate launch type. The application's data is relational and is stored in Amazon Aurora MySQL.

To meet regulatory requirements, the application must be able to recover to a separate AWS Region in the event of an application failure. In case of a failure, no data can be lost.

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

- A. Provision an Aurora Replica in a different Region.
- B. Set up AWS DataSync for continuous replication of the data to a different Region.
- C. Set up AWS Database Migration Service (AWS DMS) to perform a continuous replication of the data to a different Region.

D. Use Amazon Data Lifecycle Manager {Amazon DLM) to schedule a snapshot every 5 minutes.

Correct Answer: A

Provision an Aurora Replica in a different Region will meet the requirement of the application being able to recover to a separate AWS Region in the event of an application failure, and no data can be lost, with the least amount of operational overhead.

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### QUESTION 3

A company is running an application in the AWS Cloud. The application consists of microservices that run on a fleet of Amazon EC2 instances in multiple Availability Zones behind an Application Load Balancer. The company recently added a new REST API that was implemented in Amazon API Gateway. Some of the older microservices that run on EC2 instances need to call this new API

The company does not want the API to be accessible from the public internet and does not want proprietary data to traverse the public internet

What should a solutions architect do to meet these requirements?

A. Create an AWS Site-to-Site VPN connection between the VPC and the API Gateway Use API Gateway to generate a unique API key for each microservice. Configure the API methods to require the key.

B. Create an interface VPC endpoint for API Gateway, and set an endpoint policy to only allow access to the specific API Add a resource policy to API Gateway to only allow access from the VPC endpoint Change the API Gateway endpoint type to private.

C. Modify the API Gateway to use IAM authentication Update the IAM policy for the IAM role that is assigned to the EC2 instances to allow access to the API Gateway Move the API Gateway into a new VPC Deploy a transit gateway and connect the VPCs.

D. Create an accelerator in AWS Global Accelerator and connect the accelerator to the API Gateway. Update the route table for all VPC subnets with a route to the created Global Accelerator endpoint IP address. Add an API key for each service to use for authentication.

Correct Answer: B

<https://docs.aws.amazon.com/apigateway/latest/developerguide/apigateway-vpc-endpoint-policies.html>

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### QUESTION 4

A financial company is planning to migrate its web application from on premises to AWS. The company uses a third-party security tool to monitor the inbound traffic to the application. The company has used the security tool for the last 15 years, and the tool has no cloud solutions available from its vendor. The company's security team is concerned about how to integrate the security tool with AWS technology.

The company plans to deploy the application migration to AWS on Amazon EC2 instances. The EC2 instances will run in an Auto Scaling group in a dedicated VPC. The company needs to use the security tool to inspect all packets that come in and out of the VPC. This inspection must occur in real time and must not affect the application's performance. A solutions architect must design a target architecture on AWS that is highly available within an AWS Region.

Which combination of steps should the solutions architect take to meet these requirements? (Select TWO.)

- A. Deploy the security tool on EC2 instances in a new Auto Scaling group in the existing VPC.
- B. Deploy the web application behind a Network Load Balancer.
- C. Deploy an Application Load Balancer in front of the security tool instances.
- D. Provision a Gateway Load Balancer for each Availability Zone to redirect the traffic to the security tool.
- E. Provision a transit gateway to facilitate communication between VPCs.

Correct Answer: AD

Option A, Deploy the security tool on EC2 instances in a new Auto Scaling group in the existing VPC, allows the company to use its existing security tool while still running it within the AWS environment. This ensures that all packets coming in and out of the VPC are inspected by the security tool in real time. Option D, Provision a Gateway Load Balancer for each Availability Zone to redirect the traffic to the security tool, allows for high availability within an AWS Region. By provisioning a Gateway Load Balancer for each Availability Zone, the traffic is redirected to the security tool in the event of any failures or outages. This ensures that the security tool is always available to inspect the traffic, even in the event of a failure.

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#### QUESTION 5

A company has several applications running in an on-premises data center. The data center runs a mix of Windows and Linux VMs managed by VMware vCenter. A solutions architect needs to create a plan to migrate the applications to AWS. However, the solutions architect discovers that the documentation for the applications is not up to date and that there are no complete infrastructure diagrams. The company's developers lack time to discuss their applications and current usage with the solutions architect. What should the solutions architect do to gather the required information?

- A. Deploy the AWS Server Migration Service (AWS SMS) connector using the OVA image on the VMware cluster to collect configuration and utilization data from the VMs.
- B. Use the AWS Migration Portfolio Assessment (MPA) tool to connect to each of the VMs to collect the configuration and utilization data.
- C. Install the AWS Application Discovery Service on each of the VMs to collect the configuration and utilization data.
- D. Register the on-premises VMs with the AWS Migration Hub to collect configuration and utilization data.

Correct Answer: A

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