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The SAP-C02 Exam is designed to test candidates on a range of topics related to AWS architecture and design principles. This includes topics such as designing and deploying highly available, scalable, and fault-tolerant systems, selecting appropriate AWS services to meet specific requirements, and migrating complex, multi-tier applications to AWS. Candidates will also be tested on their ability to design and implement security controls, automate deployments, and optimize the performance of AWS services.

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## 100% Pass 2026 Amazon SAP-C02: Valid AWS Certified Solutions Architect - Professional (SAP-C02) Exam Registration

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Passing the SAP-C02 exam demonstrates that you have the technical skills and knowledge required to design and deploy complex, scalable, and highly available systems on AWS. AWS Certified Solutions Architect - Professional (SAP-C02) certification is highly valued by employers and can lead to higher salaries and better job opportunities. It also demonstrates your commitment to your career and your willingness to invest time and effort in learning and mastering the latest AWS technologies.

The AWS Certified Solutions Architect - Professional (SAP-C02) exam is a professional-level certification exam offered by Amazon Web Services (AWS). AWS Certified Solutions Architect - Professional (SAP-C02) certification exam is designed for IT professionals who have experience in designing and deploying scalable, highly available, and fault-tolerant systems on AWS. SAP-C02 Exam Tests the candidate's knowledge of advanced AWS services, cloud architecture patterns, and best practices for designing and deploying AWS solutions.

## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q559-Q564):

### NEW QUESTION # 559

A large company runs workloads in VPCs that are deployed across hundreds of AWS accounts. Each VPC consists to public subnets and private subnets that span across multiple Availability Zones. NAT gateways are deployed in the public subnets and allow outbound connectivity to the internet from the private subnets.

A solutions architect is working on a hub-and-spoke design. All private subnets in the spoke VPCs must route traffic to the internet

through an egress VPC. The solutions architect already has deployed a NAT gateway in an egress VPC in a central AWS account. Which set of additional steps should the solutions architect take to meet these requirements?

- A. Create a transit gateway in every account. Attach the NAT gateway to the transit gateways. Configure the required routing to allow access to the internet.
- B. Create peering connections between the egress VPC and the spoke VPCs. Configure the required routing to allow access to the internet.
- **C. Create a transit gateway, and share it with the existing AWS accounts. Attach existing VPCs to the transit gateway. Configure the required routing to allow access to the internet.**
- D. Create an AWS PrivateLink connection between the egress VPC and the spoke VPCs. Configure the required routing to allow access to the internet.

**Answer: C**

Explanation:

[https://d1.awsstatic.com/architecture-diagrams/ArchitectureDiagrams/NAT-gateway-centralized-egress-ra.pdf?did=wp\\_card&trk=wp\\_card](https://d1.awsstatic.com/architecture-diagrams/ArchitectureDiagrams/NAT-gateway-centralized-egress-ra.pdf?did=wp_card&trk=wp_card)

### NEW QUESTION # 560

A company has many services running in its on-premises data center. The data center is connected to AWS using AWS Direct Connect (DX) and an IPsec VPN. The service data is sensitive and connectivity cannot traverse the internet. The company wants to expand to a new market segment and begin offering its services to other companies that are using AWS.

Which solution will meet these requirements?

- A. Create a VPC Endpoint Service that accepts TCP traffic, host it behind a Network Load Balancer, and make the service available over DX.
- B. Attach an internet gateway to the VPC, and ensure that network access control and security group rules allow the relevant inbound and outbound traffic.
- **C. Create a VPC Endpoint Service that accepts HTTP or HTTPS traffic, host it behind an Application Load Balancer, and make the service available over DX.**
- D. Attach a NAT gateway to the VPC, and ensure that network access control and security group rules allow the relevant inbound and outbound traffic.

**Answer: C**

Explanation:

To offer services to other companies using AWS without traversing the internet, creating a VPC Endpoint Service hosted behind an Application Load Balancer (ALB) and making it available over AWS Direct Connect (DX) is the most suitable solution. This approach ensures that the service traffic remains within the AWS network, adhering to the requirement that connectivity must not traverse the internet. An ALB is capable of handling HTTP/HTTPS traffic, making it appropriate for web-based services. Utilizing DX for connectivity between the on-premises data center and AWS further secures and optimizes the network path.

AWS Direct Connect Documentation: Explains how to set up DX for private connectivity between AWS and an on-premises network.

Amazon VPC Endpoint Services (AWS PrivateLink) Documentation: Provides details on creating and configuring endpoint services for private, secure access to services hosted in AWS.

AWS Application Load Balancer Documentation: Offers guidance on configuring ALBs to distribute HTTP/HTTPS traffic efficiently.

### NEW QUESTION # 561

A company has many AWS accounts and uses AWS Organizations to manage all of them. A solutions architect must implement a solution that the company can use to share a common network across multiple accounts.

The company's infrastructure team has a dedicated infrastructure account that has a VPC. The infrastructure team must use this account to manage the network. Individual accounts cannot have the ability to manage their own networks. However, individual accounts must be able to create AWS resources within subnets.

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

- A. Create a transit gateway in the infrastructure account.
- B. Enable resource sharing from the AWS Organizations management account.
- **C. Create VPCs in each AWS account within the organization in AWS Organizations. Configure the VPCs to share the same**

CIDR range and subnets as the VPC in the infrastructure account. Peer the VPCs in each individual account with the VPC in the infrastructure account,

- D. Create a resource share in AWS Resource Access Manager in the infrastructure account. Select the specific AWS Organizations OU that will use the shared network. Select each subnet to associate with the resource share.
- E. Create a resource share in AWS Resource Access Manager in the infrastructure account. Select the specific AWS Organizations OU that will use the shared network. Select each prefix list to associate with the resource share.

**Answer: C,E**

#### NEW QUESTION # 562

A company is planning to migrate its business-critical applications from an on-premises data center to AWS.

The company has an on-premises installation of a

Microsoft SQL Server Always On cluster. The company wants to migrate to an AWS managed database service. A solutions architect must design a heterogeneous database migration on AWS.

Which solution will meet these requirements?

- A. Migrate the SQL Server databases to Amazon RDS for MySQL by using backup and restore utilities.
- B. Use the AWS Schema Conversion Tool to translate the database schema to Amazon RDS for MySQL. Then use AWS Database Migration Service (AWS DMS) to migrate the data from on-premises databases to Amazon RDS.
- C. Use AWS DataSync to migrate data over the network between on-premises storage and Amazon S3. Set up Amazon RDS for MySQL. Use S3 integration with SQL Server features, such as BULK INSERT.
- D. Use an AWS Snowball Edge Storage Optimized device to transfer data to Amazon S3. Set up Amazon RDS for MySQL. Use S3 integration with SQL Server features, such as BULK INSERT.

**Answer: B**

Explanation:

Explanation

<https://aws.amazon.com/dms/schema-conversion-tool/>

AWS Schema Conversion Tool (SCT) can automatically convert the database schema from Microsoft SQL Server to Amazon RDS for MySQL. This allows for a smooth transition of the database schema without any manual intervention. AWS DMS can then be used to migrate the data from the on-premises databases to the newly created Amazon RDS for MySQL instance. This service can perform a one-time migration of the data or can set up ongoing replication of data changes to keep the on-premises and AWS databases in sync.

#### NEW QUESTION # 563

A media storage application uploads user photos to Amazon S3 for processing by AWS Lambda functions.

Application state is stored in Amazon DynamoDB tables. Users are reporting that some uploaded photos are not being processed properly. The application developers trace the logs and find that Lambda is experiencing photo processing issues when thousands of users upload photos simultaneously. The issues are the result of Lambda concurrency limits and the performance of DynamoDB when data is saved.

Which combination of actions should a solutions architect take to increase the performance and reliability of the application? (Select TWO.)

- A. Evaluate and adjust the RCUs for the DynamoDB tables.
- B. Use S3 Transfer Acceleration to provide lower latency to users.
- C. Add an Amazon ElastiCache layer to increase the performance of Lambda functions.
- D. Evaluate and adjust the WCUs for the DynamoDB tables.
- E. Add an Amazon Simple Queue Service (Amazon SQS) queue and reprocessing logic between Amazon S3 and the Lambda functions.

**Answer: D,E**

Explanation:

B:

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/HowItWorks.ReadWriteCapacityMode.html>

<https://aws.amazon.com/blogs/compute/robust-serverless-application-design-with-aws-lambda-dlq/>

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