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**SAP-C02**  
**AWS Certified Solutions Architect Professional**

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The AWS Certified Solutions Architect - Professional (SAP-C02) certification is designed for experienced professionals who want to demonstrate their expertise in designing and deploying scalable, fault-tolerant, and highly available systems on the AWS platform. AWS Certified Solutions Architect - Professional (SAP-C02) certification is a must-have for architects, engineers, and consultants who work with AWS on a daily basis and want to validate their skills and knowledge.

Amazon SAP-C02 Exam is a certification program that is designed for professionals who want to demonstrate their advanced skills and knowledge in Amazon Web Services (AWS) solutions architecture. AWS Certified Solutions Architect - Professional (SAP-C02) certification validates the candidate's ability to design and deploy scalable, highly available, and fault-tolerant systems on the AWS platform. AWS Certified Solutions Architect - Professional (SAP-C02) certification covers a wide range of topics, including AWS services, architecture patterns, data management, security, and more. AWS Certified Solutions Architect - Professional (SAP-C02) certification is intended for experienced AWS professionals who are looking to take their career to the next level.

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## **Free PDF 2026 SAP-C02: Authoritative AWS Certified Solutions Architect - Professional (SAP-C02) Real Brain Dumps**

Thousands of AWS Certified Solutions Architect - Professional (SAP-C02) SAP-C02 exam candidates have passed their exam and you should also try Amazon SAP-C02 Exam Questions. AWS Certified Solutions Architect - Professional (SAP-C02) SAP-C02 Exam and start preparation with VCE4Dumps SAP-C02 and pass it with good scores.

The AWS Certified Solutions Architect - Professional (SAP-C02) certification exam is an advanced-level exam designed for experienced AWS Solutions Architects. AWS Certified Solutions Architect - Professional (SAP-C02) certification validates the candidate's ability to design and deploy scalable, highly available, and fault-tolerant systems on AWS. To be eligible for the exam, candidates must have already earned the AWS Certified Solutions Architect - Associate certification and have a minimum of two years of hands-on experience designing and deploying cloud architecture on AWS. The SAP-C02 Certification Exam covers a broad range of topics, including advanced networking, security, cost optimization, and application design, and candidates should have a solid understanding of these topics to be successful on the exam.

## Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q94-Q99):

### NEW QUESTION # 94

A company is deploying a new API to AWS. The API uses Amazon API Gateway with a Regional API endpoint and an AWS Lambda function for hosting. The API retrieves data from an external vendor API, stores data in an Amazon DynamoDB global table, and retrieves data from the DynamoDB global table. The API key for the vendor's API is stored in AWS Secrets Manager and is encrypted with a customer managed key in AWS Key Management Service (AWS KMS). The company has deployed its own API into a single AWS Region.

A solutions architect needs to change the API components of the company's API to ensure that the components can run across multiple Regions in an active-active configuration.

Which combination of changes will meet this requirement with the LEAST operational overhead? (Choose three.)

- **A. Replicate the existing Secrets Manager secret to other Regions. For each in-scope Region's replicated secret, select the appropriate KMS key.**
- B. Create a new AWS managed KMS key in each in-scope Region. Convert an existing key to a multi-Region key. Use the multi-Region key in other Regions.
- C. Modify the deployment process for the Lambda function to repeat the deployment across in-scope Regions. Turn on the multi-Region option for the existing API. Select the Lambda function that is deployed in each Region as the backend for the multi-Region API.
- **D. Deploy the API to multiple Regions. Configure Amazon Route 53 with custom domain names that route traffic to each Regional API endpoint. Implement a Route 53 multivalue answer routing policy.**
- **E. Create a new KMS multi-Region customer managed key. Create a new KMS customer managed replica key in each in-scope Region.**
- F. Create a new Secrets Manager secret in each in-scope Region. Copy the secret value from the existing Region to the new secret in each in-scope Region.

**Answer: A,D,E**

Explanation:

The combination of changes that will meet the requirement with the least operational overhead are:

A). Deploy the API to multiple Regions. Configure Amazon Route 53 with custom domain names that route traffic to each Regional API endpoint. Implement a Route 53 multivalue answer routing policy.

B). Create a new KMS multi-Region customer managed key. Create a new KMS customer managed replica key in each in-scope Region.

C). Replicate the existing Secrets Manager secret to other Regions. For each in-scope Region's replicated secret, select the appropriate KMS key.

These changes will enable the company to have an active-active configuration for its API across multiple Regions, while minimizing the complexity and cost of managing the secrets and keys.

A). This change will allow the company to use Route 53 to distribute traffic across multiple Regional API endpoints, based on the availability and latency of each endpoint. This will improve the performance and availability of the API for global customers. B). This change will allow the company to use KMS multi-Region keys, which are KMS keys in different Regions that can be used interchangeably. This will simplify the encryption and decryption of secrets across Regions, as the same key material and key ID can be used in any Region. C). This change will allow the company to use Secrets Manager replication, which replicates the encrypted secret data and metadata across the specified Regions. This will ensure that the secrets are consistent and accessible in any Region, and that any update made to the primary secret will be propagated to the replica secrets automatically. References:

1: Creating a regional API endpoint - Amazon API Gateway  
2: Multivalue answer routing policy - Amazon Route 53  
3: Multi-Region keys in AWS KMS - AWS Key Management Service  
4: Creating multi-Region keys - AWS Key Management Service  
5: Replicate an AWS Secrets Manager secret to other AWS Regions  
6: How to replicate secrets in AWS Secrets Manager to multiple Regions | AWS Security Blog

### NEW QUESTION # 95

A company is migrating its marketing website and content management system from an on-premises data center to AWS. The company wants the AWS application to be deployed in a VPC with Amazon EC2 instances used for the web servers and an Amazon RDS instance for the database.

The company has a runbook document that describes the installation process of the on-premises system. The company would like to base the AWS system on the processes referenced in the runbook document. The runbook document describes the installation and configuration of the operating systems, network settings, the website, and content management system software on the servers. After the migration is complete, the company wants to be able to make changes quickly to take advantage of other AWS features. How can the application and environment be deployed and automated in AWS, while allowing for future changes?

- A. Update the runbook to describe how to create the VPC, the EC2 instances and the RDS instance for the application by using the AWS Console. Make sure that the rest of the steps in the runbook are updated to reflect any changes that may come from the AWS migration.
- B. Write an AWS CloudFormation template that creates the VPC, the EC2 instances, and the RDS instance for the application. Ensure that the rest of the steps in the runbook are updated to reflect any changes that may come from the AWS migration.
- C. Write a Python script that uses the AWS API to create the VPC, the EC2 instances and the RDS instance for the application. Write shell scripts that implement the rest of the steps in the runbook. Have the Python script copy and run the shell scripts on the newly created instances to complete the installation.
- **D. Write an AWS CloudFormation template that creates the VPC, the EC2 instances, and the RDS instance for the application. Include EC2 user data in the AWS CloudFormation template to install and configure the software.**

**Answer: D**

### NEW QUESTION # 96

A flood monitoring agency has deployed more than 10,000 water-level monitoring sensors. Sensors send continuous data updates, and each update is less than 1 MB in size. The agency has a fleet of on-premises application servers. These servers receive updates from the sensors, convert the raw data into a human-readable format, and write the results to an on-premises relational database server. Data analysts then use simple SQL queries to monitor the data.

The agency wants to increase overall application availability and reduce the effort that is required to perform maintenance tasks. These maintenance tasks, which include updates and patches to the application servers, cause downtime. While an application server is down, data is lost from sensors because the remaining servers cannot handle the entire workload.

The agency wants a solution that optimizes operational overhead and costs. A solutions architect recommends the use of AWS IoT Core to collect the sensor data.

What else should the solutions architect recommend to meet these requirements?

- A. Send the sensor data to an Amazon Kinesis Data Analytics application to convert the data to Apache Parquet format and store it in an Amazon S3 bucket. Instruct the data analysts to query the data by using Amazon Athena.
- **B. Send the sensor data to Amazon Kinesis Data Firehose. Use an AWS Lambda function to read the Kinesis Data Firehose data, convert it to Apache Parquet format, and save it to an Amazon S3 bucket. Instruct the data analysts to query the data by using Amazon Athena.**
- C. Send the sensor data to an Amazon Kinesis Data Analytics application to convert the data to CSV format and store it in an Amazon S3 bucket. Import the data into an Amazon Aurora MySQL DB instance. Instruct the data analysts to query the data directly from the DB instance.
- D. Send the sensor data to Amazon Kinesis Data Firehose. Use an AWS Lambda function to read the Kinesis Data Firehose data, convert it to .CSV format, and insert it into an Amazon Aurora MySQL DB instance. Instruct the data analysts to query the data directly from the DB instance.

**Answer: B**

### NEW QUESTION # 97

Question:

How can applications in multiple AWS accounts privately access a PostgreSQL RDS instance in a separate AWS account, while managing the number of connections?

- A. Transit Gateway + NAT Gateway
- **B. RDS Proxy + PrivateLink via NLB**
- C. VPC Peering + NAT Gateway
- D. VPC Peering + Application Load Balancer

**Answer: B**

Explanation:

RDS Proxy optimizes and pools DB connections. By combining this with PrivateLink + NLB, other accounts can securely access the proxy endpoint without going over the internet or setting up peering for every new account.

#RDS Proxy Docs

### NEW QUESTION # 98

An ecommerce company runs an application on AWS. The application has an Amazon API Gateway API that invokes an AWS Lambda function. The data is stored in an Amazon RDS for PostgreSQL DB instance.

During the company's most recent flash sale, a sudden increase in API calls negatively affected the application's performance. A solutions architect reviewed the Amazon CloudWatch metrics during that time and noticed a significant increase in Lambda invocations and database connections. The CPU utilization also was high on the DB instance.

What should the solutions architect recommend to optimize the application's performance?

- A. Increase the memory of the Lambda function. Modify the Lambda function to close the database connections when the data is retrieved.
- **B. Create an RDS proxy by using the Lambda console. Modify the Lambda function to use the proxy endpoint.**
- C. Add an Amazon ElastiCache for Redis cluster to store the frequently accessed data from the RDS database.
- D. Modify the Lambda function to connect to the database outside of the function's handler. Check for an existing database connection before creating a new connection.

**Answer: B**

Explanation:

This option will optimize the application's performance by reducing the overhead of opening and closing database connections for each Lambda invocation. An RDS proxy is a fully managed database proxy for Amazon RDS that makes applications more scalable, more resilient to database failures, and more secure<sup>1</sup>. It allows applications to pool and share connections established with the database, improving database efficiency and application scalability<sup>1</sup>. By creating an RDS proxy by using the Lambda console, you can easily configure your Lambda function to use the proxy endpoint instead of the direct database endpoint<sup>2</sup>.

This will enable your Lambda function to reuse existing connections from the proxy's connection pool, reducing the latency and CPU utilization caused by establishing new connections for each invocation. It will also prevent connection saturation or exhaustion on the database, which can degrade performance or cause errors<sup>3</sup>.

### NEW QUESTION # 99

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