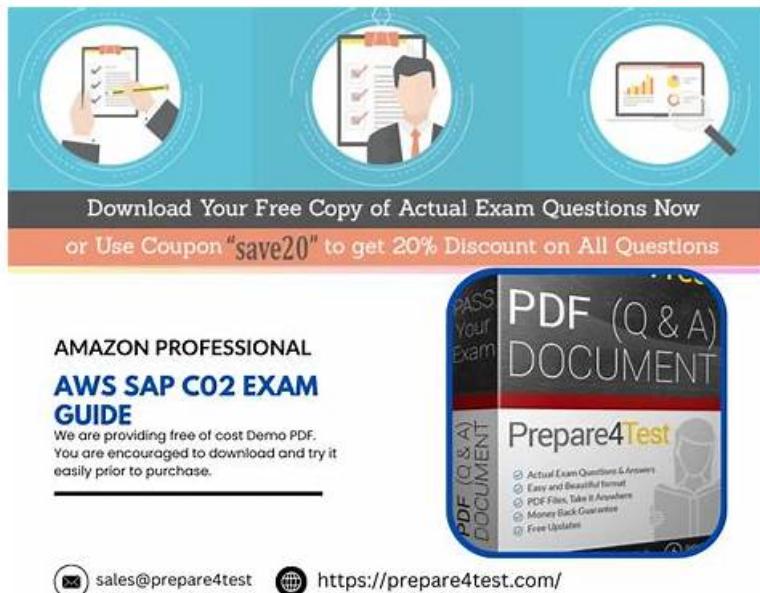# Prepare Exam With Latest Amazon SAP-C02 Exam Questions

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Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q504-Q509):

NEW QUESTION # 504
A company is planning a large event where a promotional offer will be introduced The company's website is hosted on AWS and backed by an Amazon RDS for PostgreSQL DB instance The website explains the promotion and includes a sign-up page that

collects user information and pReference Management expects large and unpredictable volumes of traffic periodically which will create many database writes A solutions architect needs to build a solution that does not change the underlying data model and ensures that submissions are not dropped before they are committed to the database Which solutions meets these requirements'?

- A. Use Amazon ElastiCache for Memcached to increase write capacity to the DB instance
- B. Migrate to Amazon DynamoDB and manage throughput capacity with automatic scaling
- C. Immediately before the event, scale up the existing DB instance to meet the anticipated demand. Then scale down after the event
- D. Use Amazon SQS to decouple the application and database layers Configure an AWS Lambda function to write items from the queue into the database

Answer: D

NEW QUESTION # 505

A solutions architect is redesigning a three-tier application that a company hosts on premises. The application provides personalized recommendations based on user profiles. The company already has an AWS account and has configured a VPC to host the application.

The frontend is a Java-based application that runs in on-premises VMs. The company hosts a personalization model on a physical application server and uses TensorFlow to implement the model. The personalization model uses artificial intelligence and machine learning (AI/ML). The company stores user information in a Microsoft SQL Server database. The web application calls the personalization model, which reads the user profiles from the database and provides recommendations.

The company wants to migrate the redesigned application to AWS.

Which solution will meet this requirement with the LEAST operational overhead?

- A. Use AWS Application Migration Service to migrate the on-premises personalization model and VMs to Amazon EC2 instances in Auto Scaling groups. Use AWS Database Migration Service (AWS DMS) to migrate the SQL Server database to an EC2 instance.
- B. Export the personalization model. Store the model artifacts in Amazon S3. Deploy the model to Amazon SageMaker and create an endpoint. Host the Java application in AWS Elastic Beanstalk. Use AWS Database Migration Service {AWS DMS) to migrate the SQL Server database to Amazon RDS for SQL Server.
- C. Use AWS Server Migration Service (AWS SMS) to migrate the on-premises physical application server and the web application VMs to AWS. Use AWS Database Migration Service (AWS DMS) to migrate the SQL Server database to Amazon RDS for SQL Server.
- D. Containerize the personalization model and the Java application. Use Amazon Elastic Kubernetes Service (Amazon EKS) managed node groups to deploy the model and the application to Amazon EKS Host the node groups in a VPC. Use AWS Database Migration Service (AWS DMS) to migrate the SQL Server database to Amazon RDS for SQL Server.

Answer: B

Explanation:
Explanation
Amazon SageMaker is a fully managed machine learning service that allows users to build, train, and deploy machine learning models quickly and easily . Users can export their existing TensorFlow models and store the model artifacts in Amazon S3, a highly scalable and durable object storage service2. Users can then deploy the model to Amazon SageMaker and create an endpoint that can be invoked by the web application to provide recommendations3. This way, the solution can leverage the AI/ML capabilities of Amazon SageMaker without having to rewrite the personalization model.
AWS Elastic Beanstalk is a service that allows users to deploy and manage web applications without worrying about the infrastructure that runs those applications. Users can host their Java application in AWS Elastic Beanstalk and configure it to communicate with the Amazon SageMaker endpoint. This way, the solution can reduce the operational overhead of managing servers, load balancers, scaling, and application health monitoring.
AWS Database Migration Service (AWS DMS) is a service that helps users migrate databases to AWS quickly and securely. Users can use AWS DMS to migrate their SQL Server database to Amazon RDS for SQL Server, a fully managed relational database service that offers high availability, scalability, security, and compatibility. This way, the solution can reduce the operational overhead of managing database servers, backups, patches, and upgrades.
Option A is incorrect because using AWS Server Migration Service (AWS SMS) to migrate the on-premises physical application server and the web application VMs to AWS is not cost-effective or scalable. AWS SMS is a service that helps users migrate on-premises workloads to AWS. However, for this use case, migrating the physical application server and the web application VMs to AWS will not take advantage of the AI/ML capabilities of Amazon SageMaker or the managed services of AWS Elastic Beanstalk and Amazon RDS.
Option C is incorrect because using AWS Application Migration Service to migrate the on-premises personalization model and

VMs to Amazon EC2 instances in Auto Scaling groups is not cost-effective or scalable. AWS Application Migration Service is a service that helps users migrate applications from on-premises or other clouds to AWS without making any changes to their applications. However, for this use case, migrating the personalization model and VMs to EC2 instances will not take advantage of the AI/ML capabilities of Amazon SageMaker or the managed services of AWS Elastic Beanstalk and Amazon RDS.

Option D is incorrect because containerizing the personalization model and the Java application and using Amazon Elastic Kubernetes Service (Amazon EKS) managed node groups to deploy them to Amazon EKS is not necessary or cost-effective. Amazon EKS is a service that allows users to run Kubernetes on AWS without needing to install, operate, and maintain their own Kubernetes control plane or nodes. However, for this use case, containerizing and deploying the personalization model and the Java application will not take advantage of the AI/ML capabilities of Amazon SageMaker or the managed services of AWS Elastic Beanstalk.

Moreover, using S3 Glacier Deep Archive as a storage class for images will incur a high retrieval fee and latency for accessing them.

NEW QUESTION # 506
A company has deployed its database on an Amazon RDS for MySQL DB instance in the us- east-1 Region. The company needs to make its data available to customers in Europe. The customers in Europe must have access to the same data as customers in the United States (US) and will not tolerate high application latency or stale data. The customers in Europe and the customers in the US need to write to the database. Both groups of customers need to see updates from the other group in real time.
Which solution will meet these requirements?

- A. Copy the most recent snapshot from the RDS for MySQL DB instance to eu-west-1. Create a new RDS for MySQL DB instance in eu-west-1 from the snapshot. Configure MySQL logical replication from us-east-1 to eu-west-1. Enable write forwarding on the DB cluster. Deploy the application in eu-wes&1. Configure the application to use the RDS for MySQL endpoint in eu- west-1.
- B. Create an Amazon Aurora MySQL replica of the RDS for MySQL DB instance. Pause application writes to the RDS DB instance. Promote the Aurora Replica to a standalone DB cluster.
  Reconfigure the application to use the Aurora database and resume writes. Add eu-west-1 as a secondary Region to the DB cluster. Enable write forwarding on the DB cluster. Deploy the application in eu-west-1. Configure the application to use the Aurora MySQL endpoint in eu-west-
  1.
- C. Convert the RDS for MySQL DB instance to an Amazon Aurora MySQL DB cluster. Add eu-west-
  1 as a secondary Region to the DB cluster. Enable write forwarding on the DB cluster. Deploy the application in eu-west-1. Configure the application to use the Aurora MySQL endpoint in eu-west-
  1.
- D. Add a cross-Region replica in eu-west-1 for the RDS for MySQL DB instance. Configure the replica to replicate write queries back to the primary DB instance. Deploy the application in eu- west-1. Configure the application to use the RDS for MySQL endpoint in eu-west-1.

Answer: B

Explanation:
https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/AuroraMySQL.Migrating.RD SMySQL.Replica.html

NEW QUESTION # 507
A company is migrating a document processing workload to AWS. The company has updated many applications to natively use the Amazon S3 API to store, retrieve, and modify documents that a processing server generates at a rate of approximately 5 documents every second. After the document processing is finished, customers can download the documents directly from Amazon S3.
During the migration, the company discovered that it could not immediately update the processing server that generates many documents to support the S3 API. The server runs on Linux and requires fast local access to the files that the server generates and modifies. When the server finishes processing, the files must be available to the public for download within 30 minutes.
Which solution will meet these requirements with the LEAST amount of effort?

- A. Set up an Amazon S3 File Gateway and configure a file share that is linked to the document store.
  Mount the file share on an Amazon EC2 instance by using NFS. When changes occur in Amazon S3, initiate a RefreshCache API call to update the S3 File Gateway.
- B. Migrate the application to an AWS Lambda function. Use the AWS SDK for Java to generate, modify, and access the files that the company stores directly in Amazon S3.
- C. Configure AWS DataSync to connect to an Amazon EC2 instance. Configure a task to synchronize the generated files to and from Amazon S3.

- D. Configure Amazon FSx for Lustre with an import and export policy. Link the new file system to an S3 bucket. Install the Lustre client and mount the document store to an Amazon EC2 instance by using NFS.

Answer: D

Explanation:
Amazon FSx for Lustre is a fully managed service that provides cost-effective, high-performance, scalable storage for compute workloads. Powered by Lustre, the world's most popular high-performance file system, FSx for Lustre offers shared storage with sub-ms latencies, up to terabytes per second of throughput, and millions of IOPS. FSx for Lustre file systems can also be linked to Amazon Simple Storage Service (S3) buckets, allowing you to access and process data concurrently from both a high-performance file system and from the S3 API.

NEW QUESTION # 508
A company needs a highly available database solution for an application. The solution must be able to fail over to a secondary AWS Region with an RPO of 5 minutes and an RTO of 20 minutes. The database is approximately 10 TB in size.
Which solution will meet these requirements?

- A. Deploy an Amazon RDS Multi-AZ DB cluster in the primary Region with a cross-Region read replica in a secondary Region. Configure automated backups and enable automated failover to promote the read replica to become the primary in the secondary Region.
- B. Deploy an Amazon RDS Multi-AZ DB cluster with a cross-Region read replica in a secondary Region. Use an Amazon CloudWatch alarm to invoke an AWS Lambda function that promotes the read replica to become the primary in the event of a failure.
- C. Deploy an Amazon Aurora DB cluster and take snapshots of the cluster every 5 minutes. When each snapshot is complete, copy the snapshot to a secondary Region.
- D. Deploy an Amazon Aurora DB cluster in the primary Region. Configure Amazon EventBridge to target Amazon RDS to create a second cluster in the event of a failure. Use AWS DMS to keep the secondary Region in sync with the primary Region.

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
The requirements specify cross-Region failover with an RPO of 5 minutes and an RTO of 20 minutes for a large (10 TB) database. Achieving a low RPO in a secondary Region typically requires near-continuous replication, not periodic snapshots. Achieving a 20-minute RTO requires that the standby data store already exists in the secondary Region and can be promoted quickly.
A cross-Region read replica provides continuous asynchronous replication from the primary Region to a replica in the secondary Region. This is the standard managed approach for cross-Region disaster recovery for Amazon RDS engines that support read replicas. With a read replica already running in the secondary Region, failover can be accomplished by promoting the replica to a standalone primary database instance. This supports an RTO target like 20 minutes because the data is already present and the promotion operation is typically faster than restoring from a full snapshot, especially at 10 TB scale.
Option B describes creating an RDS Multi-AZ DB cluster in the primary Region and a cross-Region read replica in the secondary Region. Multi-AZ addresses high availability within the primary Region, while the cross-Region replica addresses disaster recovery. The option also includes automation using CloudWatch alarms and a Lambda function to promote the replica when a failure is detected. This supports the required RTO by reducing manual intervention time and supports the RPO by using continuous replication.
Option A is not practical for RPO 5 minutes at 10 TB. Taking and copying snapshots every 5 minutes would be operationally heavy and would not complete within the required window; snapshot creation and cross- Region copy are not designed for such high-frequency near-real-time DR. It also risks missing the RPO due to snapshot completion time.
Option C introduces unnecessary complexity and additional services. Creating a second cluster only at failure time is not compatible with a 20-minute RTO for a 10 TB database, and using DMS for continuous sync is more development and operational work than using native RDS replication. This is not the least overhead or most direct DR design.
Option D is incorrect as stated because cross-Region read replicas are not automatically failed over and promoted by an "automated failover" feature in the way Multi-AZ failover works within a Region. Automated backups do not provide near-real-time cross-Region recovery to meet a 5-minute RPO. The usual approach for cross-Region is to create the replica and then promote it through a controlled process, which can be automated via monitoring and Lambda as in option B.
Therefore, using a cross-Region read replica with automation to promote it provides the necessary RPO/RTO with a managed service approach.
References:AWS documentation on Amazon RDS cross-Region read replicas for disaster recovery and replica promotion procedures.AWS documentation on Multi-AZ deployments for high availability within a Region and combining Multi-AZ with cross-

Region read replicas for DR.AWS best practices for meeting RPO/RTO using continuous replication rather than periodic snapshots for large databases.

NEW QUESTION # 509

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