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The SAP-C02 exam is a challenging test that requires extensive preparation and study. However, achieving this certification can open up a wide range of career opportunities for IT professionals, including roles as AWS solutions architects, AWS consultants, and cloud architects. Moreover, the certification demonstrates a high level of expertise in AWS architecture and can help professionals stand out in a highly competitive job market.

The AWS Certified Solutions Architect - Professional (SAP-C02) exam covers a wide range of topics, including AWS services and their integration, AWS architecture best practices, disaster recovery and business continuity, migration strategies, and security best practices. SAP-C02 Exam also tests the candidate's knowledge of AWS cost optimization, deployment and management, and troubleshooting.

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Prominent Features of DumpsMaterials Amazon SAP-C02 Practice Test Questions

These questions will familiarize you with the SAP-C02 exam format and the content that will be covered in the actual test. You will not get a passing score if you rely on outdated practice questions. DumpsMaterials has assembled a brief yet concise study material that will aid you in acing the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam on the first attempt. This prep material has been compiled under the expert guidance of 90,000 experienced Amazon professionals from around the globe.

Passing the SAP-C02 Exam can be a valuable asset for professionals looking to advance their career in the field of AWS solutions architecture. It demonstrates to employers and clients that the individual has the knowledge and skills required to design and deploy complex AWS solutions using best practices and architectural principles. Additionally, it can increase the individual's earning potential and open up new career opportunities.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q356-Q361):

NEW QUESTION # 356

A software as a service (SaaS) based company provides a case management solution to customers A3 part of the solution. The company uses a standalone Simple Mail Transfer Protocol (SMTP) server to send email messages from an application. The

application also stores an email template for acknowledgement email messages that populate customer data before the application sends the email message to the customer.

The company plans to migrate this messaging functionality to the AWS Cloud and needs to minimize operational overhead. Which solution will meet these requirements MOST cost-effectively?

- A. Set up Amazon Simple Email Service (Amazon SES) to send email messages. Store the email template in an Amazon S3 bucket. Create an AWS Lambda function to retrieve the template from the S3 bucket and to merge the customer data from the application with the template. Use an SDK in the Lambda function to send the email message.
- B. Set up an SMTP server on Amazon EC2 instances by using an AMI from the AWS Marketplace. Store the email template in an Amazon S3 bucket. Create an AWS Lambda function to retrieve the template from the S3 bucket and to merge the customer data from the application with the template. Use an SDK in the Lambda function to send the email message.
- C. Set up an SMTP server on Amazon EC2 instances by using an AMI from the AWS Marketplace. Store the email template in Amazon Simple Email Service (Amazon SES) with parameters for the customer data. Create an AWS Lambda function to call the SES template and to pass customer data to replace the parameters. Use the AWS Marketplace SMTP server to send the email message.
- **D. Set up Amazon Simple Email Service (Amazon SES) to send email messages. Store the email template on Amazon SES with parameters for the customer data. Create an AWS Lambda function to call the SendTemplatedEmail API operation and to pass customer data to replace the parameters and the email destination.**

Answer: D

Explanation:

In this solution, the company can use Amazon SES to send email messages, which will minimize operational overhead as SES is a fully managed service that handles sending and receiving email messages. The company can store the email template on Amazon SES with parameters for the customer data and use an AWS Lambda function to call the SendTemplatedEmail API operation, passing in the customer data to replace the parameters and the email destination. This solution eliminates the need to set up and manage an SMTP server on EC2 instances, which can be costly and time-consuming.

NEW QUESTION # 357

During an audit, a security team discovered that a development team was putting IAM user secret access keys in their code and then committing it to an AWS CodeCommit repository. The security team wants to automatically find and remediate instances of this security vulnerability.

Which solution will ensure that the credentials are appropriately secured automatically?

- **A. Configure a CodeCommit trigger to invoke an AWS Lambda function to scan new code submissions for credentials. If credentials are found, disable them in AWS IAM and notify the user.**
- B. Configure Amazon Macie to scan for credentials in CodeCommit repositories. If credentials are found, trigger an AWS Lambda function to disable the credentials and notify the user.
- C. Run a script nightly using AWS Systems Manager Run Command to search for credentials on the development instances. If found, use AWS Secrets Manager to rotate the credentials.
- D. Use a scheduled AWS Lambda function to download and scan the application code from CodeCommit. If credentials are found, generate new credentials and store them in AWS KMS.

Answer: A

Explanation:

Explanation

CodeCommit may use S3 on the back end (and it also uses DynamoDB on the back end) but I don't think they're stored in buckets that you can see or point Macie to. In fact, there are even solutions out there describing how to copy your repo from CodeCommit into S3 to back it up:

<https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/automate-event-driven-backups-from-codecom>

NEW QUESTION # 358

A company wants to design a disaster recovery (DR) solution for an application that runs in the company's data center. The application writes to an SMB file share and creates a copy on a second file share. Both file shares are in the data center. The application uses two types of files: metadata files and image files.

The company wants to store the copy on AWS. The company needs the ability to use SMB to access the data from either the data center or AWS if a disaster occurs. The copy of the data is rarely accessed but must be available within 5 minutes.

Which solution will meet these requirements MOST cost-effectively?

- A. Deploy an Amazon FSx File Gateway. Configure an Amazon FSx for Windows File Server Multi-AZ file system that uses SSD storage.
- B. Deploy an Amazon S3 File Gateway. Configure the S3 File Gateway to use Amazon S3 Standard-Infrequent Access (S3 Standard-IA) for the metadata files and image files.
- C. Deploy AWS Outposts with Amazon S3 storage. Configure a Windows Amazon EC2 instance on Outposts as a file server.
- **D. Deploy an Amazon S3 File Gateway. Configure the S3 File Gateway to use Amazon S3 Standard-Infrequent Access (S3 Standard-IA) for the metadata files and to use S3 Glacier Deep Archive for the image files.**

Answer: D

Explanation:

The correct solution is to use an Amazon S3 File Gateway to store the copy of the SMB file share on AWS.

An S3 File Gateway enables on-premises applications to store and access objects in Amazon S3 using the SMB protocol. The S3 File Gateway can also be accessed from AWS using the SMB protocol, which provides the ability to use the data from either the data center or AWS if a disaster occurs. The S3 File Gateway supports tiering of data to different S3 storage classes based on the file type. This allows the company to optimize the storage costs by using S3 Standard-Infrequent Access (S3 Standard-IA) for the metadata files, which are rarely accessed but must be available within 5 minutes, and S3 Glacier Deep Archive for the image files, which are the lowest-cost storage class and suitable for long-term retention of data that is rarely accessed.

This solution is the most cost-effective because it does not require any additional hardware, software, or replication services.

The other solutions are incorrect because they either use more expensive or unnecessary services or components, or they do not meet the requirements. For example:

Solution A is incorrect because it uses AWS Outposts with Amazon S3 storage, which is a very expensive and complex solution for the scenario in the question. AWS Outposts is a service that extends AWS infrastructure, services, APIs, and tools to virtually any data center, co-location space, or on-premises facility. It is designed for customers who need low latency and local data processing. Amazon S3 storage on Outposts provides a subset of S3 features and APIs to store and retrieve data on Outposts. However, this solution does not provide SMB access to the data on Outposts, which requires a Windows EC2 instance on Outposts as a file server. This adds more cost and complexity to the solution, and it does not provide the ability to access the data from AWS if a disaster occurs.

Solution B is incorrect because it uses Amazon FSx File Gateway and Amazon FSx for Windows File Server Multi-AZ file system that uses SSD storage, which are both more expensive and unnecessary services for the scenario in the question. Amazon FSx File Gateway is a service that enables on-premises applications to store and access data in Amazon FSx for Windows File Server using the SMB protocol. Amazon FSx for Windows File Server is a fully managed service that provides native Windows file shares with the compatibility, features, and performance that Windows-based applications rely on. However, this solution does not meet the requirements because it does not provide the ability to use different storage classes for the metadata files and image files, and it does not provide the ability to access the data from AWS if a disaster occurs. Moreover, using a Multi-AZ file system that uses SSD storage is overprovisioned and costly for the scenario in the question, which involves rarely accessed data that must be available within 5 minutes.

Solution D is incorrect because it uses an S3 File Gateway that uses S3 Standard-IA for both the metadata files and image files, which is not the most cost-effective solution for the scenario in the question. S3 Standard-IA is a storage class that offers high durability, availability, and performance for infrequently accessed data. However, it is more expensive than S3 Glacier Deep Archive, which is the lowest-cost storage class and suitable for long-term retention of data that is rarely accessed. Therefore, using S3 Standard-IA for the image files, which are likely to be larger and more numerous than the metadata files, is not optimal for the storage costs.

References:

What is S3 File Gateway?

Using Amazon S3 storage classes with S3 File Gateway

Accessing your file shares from AWS

NEW QUESTION # 359

A company needs to implement a disaster recovery (DR) plan for a web application. The application runs in a single AWS Region. The application uses microservices that run in containers. The containers are hosted on AWS Fargate in Amazon Elastic Container Service (Amazon ECS). The application has an Amazon RDS for MySQL DB instance as its data layer and uses Amazon Route 53 for DNS resolution. An Amazon CloudWatch alarm invokes an Amazon EventBridge rule if the application experiences a failure. A solutions architect must design a DR solution to provide application recovery to a separate Region. The solution must minimize the time that is necessary to recover from a failure.

Which solution will meet these requirements?

- A. Set up a second ECS cluster and ECS service on Fargate in the separate Region. Create a cross-Region read replica of the RDS DB instance in the separate Region. Create an AWS Lambda function to promote the read replica to the primary database. Configure the Lambda function to update Route 53 to route traffic to the second ECS cluster. Update the EventBridge rule to add a target that will invoke the Lambda function.
- B. Set up a second ECS cluster and ECS service on Fargate in the separate Region. Take a snapshot of the RDS DB instance. Convert the snapshot to an Amazon DynamoDB global table. Create an AWS Lambda function to update Route 53 to route traffic to the second ECS cluster. Update the EventBridge rule to add a target that will invoke the Lambda function.
- C. Create an AWS Lambda function that creates a second ECS cluster and ECS service in the separate Region. Configure the Lambda function to perform the following actions: take a snapshot of the RDS DB instance, copy the snapshot to the separate Region, create a new RDS DB instance from the snapshot, and update Route 53 to route traffic to the second ECS cluster. Update the EventBridge rule to add a target that will invoke the Lambda function.
- D. Set up a second ECS cluster and ECS service on Fargate in the separate Region. Create an AWS Lambda function to perform the following actions: take a snapshot of the RDS DB instance, copy the snapshot to the separate Region, create a new RDS DB instance from the snapshot, and update Route 53 to route traffic to the second ECS cluster. Update the EventBridge rule to add a target that will invoke the Lambda function.

Answer: A

Explanation:

This option uses a cross-Region read replica of the RDS DB instance to provide a standby database in the separate Region. A cross-Region read replica is a copy of the primary database that is updated asynchronously using the native replication features of the database engine. It provides enhanced availability, scalability, and performance for read-heavy workloads. It also enables fast recovery from a regional outage by promoting the read replica to a standalone database. To use a cross-Region read replica, the company needs to set up a second ECS cluster and ECS service on Fargate in the separate Region. The company also needs to create an AWS Lambda function to promote the read replica to the primary database and update Route 53 to route traffic to the second ECS cluster. The company can then update the EventBridge rule to add a target that will invoke the Lambda function in case of a failure.

NEW QUESTION # 360

A company is hosting an image-processing service on AWS in a VPC. The VPC extends across two Availability Zones. Each Availability Zone contains one public subnet and one private subnet.

The service runs on Amazon EC2 instances in the private subnets. An Application Load Balancer in the public subnets is in front of the service. The service needs to communicate with the internet and does so through two NAT gateways. The service uses Amazon S3 for image storage. The EC2 instances retrieve approximately 1 GB of data from an S3 bucket each day.

The company has promoted the service as highly secure. A solutions architect must reduce cloud expenditures as much as possible without compromising the service's security posture or increasing the time spent on ongoing operations.

Which solution will meet these requirements?

- A. Move the EC2 instances to the public subnets. Remove the NAT gateways.
- B. Set up an S3 gateway VPC endpoint in the VPC. Attach an endpoint policy to the endpoint to allow the required actions on the S3 bucket.
- C. Attach an Amazon Elastic File System (Amazon EFS) volume to the EC2 instances. Host the image on the EFS volume.
- D. Replace the NAT gateways with NAT instances. In the VPC route table, create a route from the private subnets to the NAT instances.

Answer: B

Explanation:

Explanation

Create Amazon S3 gateway endpoint in the VPC and add a VPC endpoint policy. This VPC endpoint policy will have a statement that allows S3 access only via access points owned by the organization.

NEW QUESTION # 361

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