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The Amazon SAP-C02 Certification is a valuable certificate that is designed to advance the professional career. With the AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) certification exam seasonal professionals and beginners get an opportunity to demonstrate their expertise. The AWS Certified Solutions Architect - Professional (SAP-C02) certification exam recognizes successful candidates in the market and provides solid proof of their expertise.

The SAP-C02 certification is recognized by companies around the world as a measure of a candidate's advanced skills in AWS architecture. Obtaining this certification can help IT professionals advance their careers by demonstrating their expertise in designing and deploying complex cloud-based solutions on AWS. Additionally, the certification can help candidates stand out in a competitive job market by demonstrating their commitment to continuous learning and professional development.

The SAP-C02 Exam consists of multiple-choice and multiple-response questions and lasts for 180 minutes. Candidates must achieve a passing score of 750 out of 1000 to earn their certification. SAP-C02 exam can be taken at a testing center or online through a proctored exam. Earning the SAP-C02 certification demonstrates a high level of expertise in AWS architecture and design and can open up new career opportunities in the rapidly growing field of cloud computing.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q528-Q533):

NEW QUESTION # 528

A company is running applications on AWS in a multi-account environment. The company's sales team and marketing team use separate AWS accounts in AWS Organizations.

The sales team stores petabytes of data in an Amazon S3 bucket. The marketing team uses Amazon QuickSight for data visualizations. The marketing team needs access to data that the sales team stores in the S3 bucket. The company has encrypted the S3 bucket with an AWS Key Management Service (AWS KMS) key.

The marketing team has already created the IAM service role for QuickSight to provide QuickSight access in the marketing AWS account. The company needs a solution that will provide secure access to the data in the S3 bucket across AWS accounts.

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

- A. Create an IAM role in the sales account and grant access to the S3 bucket. From the marketing account, assume the IAM role in the sales account to access the S3 bucket. Update the QuickSight role, to create a trust relationship with the new IAM role in the sales account.
- B. Create an SCP to grant access to the S3 bucket to the marketing account. Use AWS Resource Access Manager (AWS RAM) to share the KMS key from the sales account with the marketing account. Update the QuickSight permissions in the marketing account to grant access to the S3 bucket.
- C. Update the S3 bucket policy in the marketing account to grant access to the QuickSight role. Create a KMS grant for the encryption key that is used in the S3 bucket. Grant decrypt access to the QuickSight role. Update the QuickSight permissions in the marketing account to grant access to the S3 bucket.
- D. Create a new S3 bucket in the marketing account. Create an S3 replication rule in the sales account to copy the objects to the new S3 bucket in the marketing account. Update the QuickSight permissions in the marketing account to grant access to the new S3 bucket.

Answer: A

Explanation:

Explanation

Create an IAM role in the sales account and grant access to the S3 bucket. From the marketing account, assume the IAM role in the sales account to access the S3 bucket. Update the QuickSight role, to create a trust relationship with the new IAM role in the sales account.

This approach is the most secure way to grant cross-account access to the data in the S3 bucket while minimizing operational overhead. By creating an IAM role in the sales account, the marketing team can assume the role in their own account, and have access to the S3 bucket. And updating the QuickSight role, to create a trust relationship with the new IAM role in the sales account will grant the marketing team to access the data in the S3 bucket and use it for data visualization using QuickSight.

AWS Resource Access Manager (AWS RAM) also allows sharing of resources between accounts, but it would require additional management and configuration to set up the sharing, which would increase operational overhead.

Using S3 replication would also replicate the data to the marketing account, but it would not provide the marketing team access to the original data, and also it would increase operational overhead with managing the replication process.

IAM roles and policies, KMS grants and trust relationships are a powerful combination for managing cross-account access in a secure and efficient manner.

References:

- * AWS IAM Roles
- * AWS KMS - Key Grants
- * AWS RAM

NEW QUESTION # 529

A company has an application that runs on Amazon EC2 instances. A solutions architect is designing VPC infrastructure in an AWS Region where the application needs to access an Amazon Aurora DB cluster. The EC2 instances are all associated with the same security group.

The DB cluster is associated with its own security group. The solutions architect needs to add rules to the security groups to provide the application with least privilege access to the DB cluster.

Which combination of steps will meet these requirements? (Choose two.)

- A. Add an outbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the destination over the default Aurora port.
- B. Add an inbound rule to the EC2 instances' security group. Specify the DB cluster's security group as the source over the

default Aurora port.

- C. Add an inbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the source over the default Aurora port.
- D. Add an outbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the destination over the ephemeral ports.
- E. Add an outbound rule to the EC2 instances' security group. Specify the DB cluster's security group as the destination over the default Aurora port.

Answer: C,E

Explanation:

1. Add an outbound rule to the EC2 instances' security group. Specify the DB cluster's security group as the destination over the default Aurora port. This allows the instances to make outbound connections to the DB cluster on the default Aurora port. C. Add an inbound rule to the DB cluster's security group. Specify the EC2 instances' security group as the source over the default Aurora port. This allows connections to the DB cluster from the EC2 instances on the default Aurora port.

NEW QUESTION # 530

A company is migrating an application to the AWS Cloud. The application runs in an on-premises data center and writes thousands of images into a mounted NFS file system each night. After the company migrates the application, the company will host the application on an Amazon EC2 instance with a mounted Amazon Elastic File System (Amazon EFS) file system.

The company has established an AWS Direct Connect connection to AWS. Before the migration cutover, a solutions architect must build a process that will replicate the newly created on-premises images to the EFS file system.

What is the MOST operationally efficient way to replicate the images?

- A. Deploy an AWS DataSync agent to an on-premises server that has access to the NFS file system. Send data over the Direct Connect connection to an S3 bucket by using public VIF. Configure an AWS Lambda function to process event notifications from Amazon S3 and copy the images from Amazon S3 to the EFS file system.
- B. Deploy an AWS Storage Gateway file gateway with an NFS mount point. Mount the file gateway file system on the on-premises server. Configure a process to periodically copy the images to the mount point.
- C. Configure a periodic process to run the aws s3 sync command from the on-premises file system to Amazon S3. Configure an AWS Lambda function to process event notifications from Amazon S3 and copy the images from Amazon S3 to the EFS file system.
- D. Deploy an AWS DataSync agent to an on-premises server that has access to the NFS file system. Send data over the Direct Connect connection to an AWS PrivateLink int

Answer: D

Explanation:

Explanation

This option uses AWS DataSync to replicate the on-premises images to the EFS file system over the Direct Connect connection. AWS DataSync is a service that automates and accelerates data transfer between on-premises storage systems and AWS storage services. It can transfer data to and from Amazon EFS, Amazon FSx for Windows File Server, and Amazon S3. To use AWS DataSync, the company needs to deploy an AWS DataSync agent to an on-premises server that has access to the NFS file system. The agent connects to the AWS DataSync service endpoint in the AWS Region where the EFS file system is located. The company can use an AWS PrivateLink interface endpoint to connect to the service endpoint securely and privately over the Direct Connect connection. The company can then create a task in AWS DataSync that specifies the source location (the NFS file system), the destination location (the EFS file system), and the options for the data transfer (such as schedule, bandwidth limit, and verification). AWS DataSync will then perform the data transfer efficiently and securely, using encryption in transit and at rest.

NEW QUESTION # 531

A company has a website that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances are in an Auto Scaling group. The ALB is associated with an AWS WAF web ACL.

The website often encounters attacks in the application layer. The attacks produce sudden and significant increases in traffic on the application server. The access logs show that each attack originates from different IP addresses. A solutions architect needs to implement a solution to mitigate these attacks.

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

- A. Inspect access logs to find a pattern of IP addresses that launched the attacks. Use an Amazon Route 53 geolocation routing policy to deny traffic from the countries that host those IP addresses.

- B. Create an Amazon CloudWatch alarm that monitors server access. Set a threshold based on access by IP address. Configure an alarm action that adds the IP address to the web ACL's deny list.
- **C. Create an Amazon CloudWatch alarm that monitors user IP addresses. Set a threshold based on access by IP address. Configure the alarm to invoke an AWS Lambda function to add a deny rule in the application server's subnet route table for any IP addresses that activate the alarm.**
- D. Deploy AWS Shield Advanced in addition to AWS WAF. Add the ALB as a protected resource.

Answer: C

Explanation:

"The AWS WAF API supports security automation such as blacklisting IP addresses that exceed request limits, which can be useful for mitigating HTTP flood attacks." > <https://aws.amazon.com/blogs/security/how-to-protect-dynamic-web-applications-against-ddos-attacks-by-using-amazon-cloudfront-and-amazon-route-53/>

NEW QUESTION # 532

A company uses Amazon S3 to store files and images in a variety of storage classes. The company's S3 costs have increased substantially during the past year.

A solutions architect needs to review data trends for the past 12 months and identify the appropriate storage class for the objects. Which solution will meet these requirements?

- A. Use S3 storage class analysis. Import data trends into an Amazon QuickSight dashboard to analyze storage trends.
- B. Use Access Analyzer for S3. Download the Access Analyzer for S3 report for the last 12 months. Import the csvfile to an Amazon QuickSight dashboard.
- **C. Use Amazon S3 Storage Lens. Upgrade the default dashboard to include advanced metrics for storage trends.**
- D. Download AWS Cost and Usage Reports for the last 12 months of S3 usage. Review AWS Trusted Advisor recommendations for cost savings.

Answer: C

Explanation:

https://docs.aws.amazon.com/AmazonS3/latest/userguide/storage_lens.html

NEW QUESTION # 533

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