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Amazon SAA-C03 certification is highly valued by employers and is recognized worldwide. It is a clear indication of the candidate's knowledge and expertise in AWS, and it demonstrates their ability to design and deploy highly available and fault-tolerant systems on AWS. AWS Certified Solutions Architect - Associate certification also opens up new job opportunities and career advancements.

The SAA-C03 Certification Exam covers a wide range of topics, including AWS architecture, deployment, security, and troubleshooting. Candidates are required to have a strong understanding of AWS services, including EC2, S3, RDS, and VPC. They should also be familiar with AWS best practices and have hands-on experience with AWS services.

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Passing the Amazon SAA-C03 Exam requires a thorough understanding of AWS services and their architecture. It is a challenging exam that tests the candidate's ability to design and implement scalable and reliable solutions on the AWS platform. Candidates who pass the exam are awarded the AWS Certified Solutions Architect - Associate certification, which is recognized globally and can help professionals advance their careers in the cloud computing industry.

Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q440-Q445):

NEW QUESTION # 440

A solutions architect must migrate a Windows Internet Information Services (IIS) web application to AWS The application currently relies on a file share hosted in the user's on-premises network-attached storage (NAS) The solutions architect has proposed migrating the MS web servers to Amazon EC2 instances in multiple Availability Zones that are connected to the storage solution, and configuring an Elastic Load Balancer attached to the instances Which replacement to the on-premises file share is MOST resilient and durable?

- A. Migrate the file share to Amazon FSx for Windows File Server
- B. Migrate the file share to Amazon Elastic File System (Amazon EFS)
- C. Migrate the file share to Amazon RDS
- D. Migrate the file share to AWS Storage Gateway

Answer: A

Explanation:
This answer is correct because it provides a resilient and durable replacement for the on-premises file share that is compatible with Windows IIS web servers. Amazon FSx for Windows File Server is a fully managed service that provides shared file storage built on Windows Server. It supports the SMB protocol and integrates with Microsoft Active Directory, which enables seamless access and authentication for Windows-based applications. Amazon FSx for Windows File Server also offers the following benefits:
Resilience: Amazon FSx for Windows File Server can be deployed in multiple Availability Zones, which provides high availability and failover protection. It also supports automatic backups and restores, as well as self-healing features that detect and correct issues.
Durability: Amazon FSx for Windows File Server replicates data within and across Availability Zones, and stores data on highly durable storage devices. It also supports encryption at rest and in transit, as well as file access auditing and data deduplication.
Performance: Amazon FSx for Windows File Server delivers consistent sub-millisecond latencies and high throughput for file operations. It also supports SSD storage, native Windows features such as Distributed File System (DFS) Namespaces and Replication, and user-driven performance scaling.
Reference:
Amazon FSx for Windows File Server
Using Microsoft Windows file shares

NEW QUESTION # 441

A financial services company plans to launch a new application on AWS to handle sensitive financial transactions. The company will deploy the application on Amazon EC2 instances. The company will use Amazon RDS for MySQL as the database. The company's security policies mandate that data must be encrypted at rest and in transit.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Implement third-party application-level data encryption before storing data in Amazon RDS for MySQL. Configure AWS Certificate Manager (ACM) SSL/TLS certificates for encryption in transit.
- B. Configure encryption at rest for Amazon RDS for MySQL by using AWS KMS managed keys.
  Configure IPsec tunnels for encryption in transit
- C. Configure encryption at rest for Amazon RDS for MySQL by using AWS KMS managed keys Configure a VPN connection to enable private connectivity to encrypt data in transit.
- D. Configure encryption at rest for Amazon RDS for MySQL by using AWS KMS managed keys.
  Configure AWS Certificate Manager (ACM) SSL/TLS certificates for encryption in transit.

Answer: D

Explanation:
This solution provides encryption at rest and in transit with the least operational overhead while adhering to the company's security policies.
* Encryption at Rest: Amazon RDS for MySQL can be configured to encrypt data at rest by using AWS Key Management Service (KMS) managed keys. This encryption is applied automatically to all data stored on disk, including backups, read replicas, and snapshots. This solution requires minimal operational overhead because AWS manages the encryption and key management process.
* Encryption in Transit: AWS Certificate Manager (ACM) allows you to provision, manage, and deploy SSL/TLS certificates seamlessly. These certificates can be used to encrypt data in transit by configuring the MySQL instance to use SSL/TLS for connections. This setup ensures that data is encrypted between the application and the database, protecting it from interception during transmission.
* Why Not Other Options?:

* Option B (IPsec tunnels): While IPsec tunnels encrypt data in transit, they are more complex to manage and require additional configuration and maintenance, leading to higher operational overhead.
* Option C (Third-party application-level encryption): Implementing application-level encryption adds complexity, requires code changes, and increases operational overhead.
* Option D (VPN for encryption): A VPN solution for encrypting data in transit is unnecessary and adds additional complexity without providing any benefit over SSL/TLS, which is simpler to implement and manage.
AWS References:
* Amazon RDS Encryption - Information on how to configure and use encryption for Amazon RDS.
* AWS Certificate Manager (ACM) - Details on using ACM to manage SSL/TLS certificates for securing data in transit.

NEW QUESTION # 442
A company is building a shopping application on AWS. The application offers a catalog that changes once each month and needs to scale with traffic volume. The company wants the lowest possible latency from the application. Data from each user's shopping carl needs to be highly available. User session data must be available even if the user is disconnected and reconnects.
What should a solutions architect do to ensure that the shopping cart data is preserved at all times?

- A. Configure Amazon ElastiCacJie for Redis to cache catalog data from Amazon DynamoDB and shopping carl data from the user's session.
- B. Configure Amazon OpenSearch Service to cache catalog data from Amazon DynamoDB and shopping cart data from the user's session.
- C. Configure an Amazon EC2 instance with Amazon Elastic Block Store (Amazon EBS) storage for the catalog and shopping cart. Configure automated snapshots.
- D. Configure an Application Load Balancer to enable the sticky sessions feature (session affinity) for access to the catalog in Amazon Aurora.

Answer: A

Explanation:
To ensure that the shopping cart data is preserved at all times, a solutions architect should configure Amazon ElastiCache for Redis to cache catalog data from Amazon DynamoDB and shopping cart data from the user's session. This solution has the following benefits:
It offers the lowest possible latency from the application, as ElastiCache for Redis is a blazing fast in-memory data store that provides sub-millisecond latency to power internet-scale real-time applications1.
It scales with traffic volume, as ElastiCache for Redis supports horizontal scaling by adding more nodes or shards to the cluster, and vertical scaling by changing the node type2.
It is highly available, as ElastiCache for Redis supports replication across multiple Availability Zones and automatic failover in case of a primary node failure3.
It preserves user session data even if the user is disconnected and reconnects, as ElastiCache for Redis can store session data, such as user login information and shopping cart contents, in a persistent and durable manner using snapshots or AOF (append-only file) persistence4.
Reference:
1: https://aws.amazon.com/elasticache/redis/
2: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/Scaling.html
3: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/Replication.html
4: https://docs.aws.amazon.com/AmazonElastiCache/latest/red-ug/backups.html

NEW QUESTION # 443
A company recently launched a variety of new workloads on Amazon EC2 instances in its AWS account. The company needs to create a strategy to access and administer the instances remotely and securely. The company needs to implement a repeatable process that works with native AWS services and follows the AWS Well-Architected Framework.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Attach the appropriate IAM role to each existing instance and new instance. Use AWS Systems Manager Session Manager to establish a remote SSH session.
- B. Use the EC2 serial console to directly access the terminal interface of each instance for administration.
- C. Establish an AWS Site-to-Site VPN connection. Instruct administrators to use their local on-premises machines to connect directly to the instances by using SSH keys across the VPN tunnel.
- D. Create an administrative SSH key pair. Load the public key into each EC2 instance. Deploy a bastion host in a public

subnet to provide a tunnel for administration of each instance.

Answer: A

Explanation:
Explanation
https://docs.aws.amazon.com/systems-manager/latest/userguide/setup-launch-managed-instance.html

NEW QUESTION # 444
[Design Secure Architectures]
A company runs an application on Amazon EC2 Instances in a private subnet. The application needs to store and retrieve data in Amazon S3 buckets. According to regulatory requirements, the data must not travel across the public internet.
What should a solutions architect do to meet these requirements MOST cost-effectively?

- A. Deploy AWS Storage Gateway to access the S3 buckets.
- B. Deploy an S3 gateway endpoint to access the S3 buckets.
- C. Deploy a NAT gateway to access the S3 buckets.
- D. Deploy an S3 interface endpoint to access the S3 buckets.

Answer: B

Explanation:
Understanding the Requirement: The application running in a private subnet needs to store and retrieve data from S3 without data traveling over the public internet.
Analysis of Options:
NAT Gateway: Allows private subnets to access the internet but incurs additional costs and still routes traffic through the public internet.
AWS Storage Gateway: Provides hybrid cloud storage solutions but is not the most cost-effective for direct S3 access from within the VPC.
S3 Interface Endpoint: Provides private access to S3 but is generally used for specific use cases where more granular control is required, which might be overkill and more expensive.
S3 Gateway Endpoint: Provides private, cost-effective access to S3 from within the VPC without routing traffic through the public internet.
Best Solution:
S3 Gateway Endpoint: This option meets the requirements for secure, private access to S3 from a private subnet most cost-effectively.
Reference:
Amazon VPC Endpoints
Gateway Endpoints

NEW QUESTION # 445
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