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The AWS Certified Solutions Architect - Associate (SAA-C02) exam is an excellent certification for IT professionals who want to demonstrate their expertise in designing and deploying scalable, highly available, and fault-tolerant systems on AWS. With its broad coverage of AWS services and architecture best practices, this certification is highly valued in the industry and can help professionals advance their careers in cloud computing.

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It is a truth universally acknowledged that the exam is not easy but the related AWS-Solutions-Associate certification is of great significance for workers in this field so that many workers have to meet the challenge, I am glad to tell you that our company aims to help you to pass the AWS-Solutions-Associate examination as well as gaining the related certification in a more efficient and simpler way. During nearly ten years, our AWS-Solutions-Associate Exam Questions have met with warm reception and quick sale in the international market. Our AWS-Solutions-Associate study materials are distinctly superior in the whole field.

The Amazon AWS-Solutions-Associate Exam consists of multiple-choice and multiple-response questions that cover a wide range of topics, including AWS core services, security, networking, databases, and storage. Candidates must be able to demonstrate their ability to design and deploy AWS solutions that meet the needs of their organizations, as well as their ability to troubleshoot and optimize those solutions.

Amazon AWS Certified Solutions Architect - Associate (SAA-C03) Sample Questions (Q380-Q385):

NEW QUESTION # 380

A solutions architect is designing a workload that will store hourly energy consumption by business tenants in a building. The sensors will feed a database through HTTP requests that will add up usage for each tenant.

The solutions architect must use managed services when possible. The workload will receive more features in the future as the solutions architect adds independent components.

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

- A. Use Amazon API Gateway with AWS Lambda functions to receive the data from the sensors, process the data, and store the data in an Amazon DynamoDB table.
- B. Use an Elastic Load Balancer that is supported by an Auto Scaling group of Amazon EC2 instances to receive and process the data from the sensors. Use an Amazon S3 bucket to store the processed data.
- C. Use Amazon API Gateway with AWS Lambda functions to receive the data from the sensors, process the data, and store the data in a Microsoft SQL Server Express database on an Amazon EC2 instance.
- D. Use an Elastic Load Balancer that is supported by an Auto Scaling group of Amazon EC2 instances to receive and process the data from the sensors. Use an Amazon Elastic File System (Amazon EFS) shared file system to store the processed data.

Answer: A

Explanation:

To use an event-driven programming model with AWS Lambda and reduce operational overhead, Amazon API Gateway and Amazon DynamoDB are suitable solutions. Amazon API Gateway can receive the data from the sensors and invoke AWS Lambda functions to process the data. AWS Lambda can run code without provisioning or managing servers, and scale automatically with the incoming requests. Amazon DynamoDB can store the data in a fast and flexible NoSQL database that can handle any amount of data with consistent performance.

References:

[What Is Amazon API Gateway?](#)

[What Is AWS Lambda?](#)

[What Is Amazon DynamoDB?](#)

NEW QUESTION # 381

A solutions architect is creating a new VPC design. There are two public subnets for the load balancer, two private subnets for web servers and two private subnets for MySQL. The web servers use only HTTPS. The solutions architect has already created a security group for the load balancer allowing port 443 from 0.0.0.0/0. Company policy requires that each resource has the least access required to still be able to perform its tasks. Which additional configuration strategy should the solutions architect use to meet these requirements?

- A. Create a network ACL for the web servers and allow port 443 from the load balancer. Create a network ACL for the MySQL servers and allow port 3306 from the web servers security group.
- B. Create a security group for the web servers and allow port 443 from 0.0.0.0/0. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.
- C. Create a network ACL for the web servers and allow port 443 from 0.0.0.0/0. Create a network ACL (or the MySQL servers and allow port 3306 from the web servers security group).
- D. Create a security group for the web servers and allow port 443 from the load balancer. Create a security group for the MySQL servers and allow port 3306 from the web servers security group.

Answer: D

Explanation:

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.

By configuring the Amazon FSx file share to use an AWS KMS CMK to encrypt the images in the file share, the company can protect the images from unauthorized access and comply with company policy. By using NTFS permission sets on the images, the company can prevent accidental deletion of the images by restricting who can modify or delete them.

References:

[Amazon FSx for Windows File Server](#)

NEW QUESTION # 382

A company has an ecommerce checkout workflow that writes an order to a database and calls a service to process the payment. Users are experiencing timeouts during the checkout process. When users resubmit the checkout form, multiple unique orders are created for the same desired transaction.

How should a solutions architect refactor this workflow to prevent the creation of multiple orders?

- A. Store the order in the database. Send a message that includes the order number to an Amazon Simple Queue Service (Amazon SQS) FIFO queue. Set the payment service to retrieve the message and process the order. Delete the message from the queue.
- B. Configure the web application to send an order message to Amazon Kinesis Data Firehose. Set the payment service to retrieve the message from Kinesis Data Firehose and process the order.
- C. Create a rule in AWS CloudTrail to invoke an AWS Lambda function based on the logged application path request. Use Lambda to query the database, call the payment service, and pass in the order information.
- D. Store the order in the database. Send a message that includes the order number to Amazon Simple Notification Service (Amazon SNS). Set the payment service to poll Amazon SNS, retrieve the message, and process the order.

Answer: A

NEW QUESTION # 383

A Solutions Architect is designing an application on AWS that will connect to the on-premise data center through a VPN connection. The solution must be able to log network traffic over the VPN. Which service logs this network traffic?

- A. logs Amazon VPC flow logs
- B. Amazon S3 bucket logs
- C. Amazon CloudWatch Logs
- D. AWS CloudTrail

Answer: A

Explanation:

Explanation

VPC Flow Logs
In order to provide better support for this important aspect of network monitoring, we are introducing Flow Logs for the Amazon Virtual Private Cloud. Once enabled for a particular VPC, VPC subnet, or Elastic Network Interface (ENI), relevant network traffic will be logged to CloudWatch Logs for storage and analysis by your own applications or third-party tools. You can create alarms that will fire if certain types of traffic are detected; you can also create metrics to help you to identify trends and patterns.

The information captured includes information about allowed and denied traffic (based on security group and network ACL rules). It also includes source and destination IP addresses, ports, the IANA protocol number, packet and byte counts, a time interval during which the flow was observed, and an action (ACCEPT or REJECT).

NEW QUESTION # 384

A company has a workflow that sends video files from their on-premise system to AWS for transcoding. They use EC2 worker instances that pull transcoding jobs from SQS. Why is SQS an appropriate service for this scenario?

- A. SQS checks the health of the worker instances.
- B. SQS guarantees the order of the messages.
- C. SQS synchronously provides transcoding output.
- D. SQS helps to facilitate horizontal scaling of encoding tasks.

Answer: D

NEW QUESTION # 385

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