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AWS Certified Solutions Architect – Associate SAA-C03 Exam Questions and Answers

Exam Question 1

A company is migrating from an on-premises infrastructure to the AWS Cloud. One of the company's applications stores files on a Windows file server farm that uses Distributed File System Replication (DFSR) to keep data in sync. A solutions architect needs to replace the file server farm.

Which service should the solutions architect use?

- A. Amazon EFS
- B. Amazon FSx
- C. Amazon S3
- D. AWS Storage Gateway

Correct Answer

- B. Amazon FSx

Exam Question 2

A company has a legacy application that processes data in two parts. The second part of the process takes longer than the first, so the company has decided to rewrite the application as two microservices running on Amazon ECS that can scale independently.

How should a solutions architect integrate the microservices?

- A. Implement code in microservice 1 to send data to an Amazon S3 bucket. Use S3 event notifications to invoke microservice 2.
- B. Implement code in microservice 1 to publish data to an Amazon SNS topic. Implement code in microservice 2 to subscribe to this topic.
- C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose.
- D. Implement code in microservice 1 to send data to an Amazon SQS queue. Implement code in microservice 2 to process messages from the queue.

Correct Answer

- C. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose. Implement code in microservice 2 to read from Kinesis Data Firehose.

Exam Question 3

A company captures clickstream data from multiple websites and analyzes it using batch processing. The data is loaded nightly into Amazon Redshift and is consumed by business

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Amazon SAA-C03 Exam covers a wide range of topics related to AWS services and solutions, including compute, storage, databases, networking, security, and more. AWS Certified Solutions Architect - Associate certification exam is designed to validate the skills and knowledge required to design and deploy secure, resilient, and scalable AWS solutions that meet business objectives and requirements.

Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q323-Q328):

NEW QUESTION # 323

An ecommerce company hosts a three-tier web application in a VPC. The web tier runs on Amazon EC2 instances in two Availability Zones. The company stores a product catalog and customer sales information in Amazon DynamoDB.

The company's finance team uses a reporting application to generate reports of daily product sales. When the finance team runs the daily reports, a sudden performance decrease affects website customers.

The company wants to improve the performance of the system.

Which solution will meet these requirements with MINIMAL changes to the current architecture?

- A. Increase the compute capacity of the EC2 instances. Migrate the database to Amazon ElastiCache (Memcached).
- B. Configure DynamoDB streams.
- **C. Implement DynamoDB Accelerator (DAX).**
- D. Migrate the application to larger EC2 instances. Migrate the database to Amazon RDS for MySQL. Configure a read replica of the database in a second Availability Zone.

Answer: C

Explanation:

DynamoDB Accelerator (DAX) is a fully managed, in-memory cache for DynamoDB that delivers up to a 10x performance improvement-even at millions of requests per second. DAX requires minimal changes to existing applications and offloads the read workload from DynamoDB during report generation.

Reference Extract:

"DAX provides in-memory acceleration for DynamoDB tables, reducing response times from milliseconds to microseconds with minimal application changes." Source: AWS Certified Solutions Architect - Official Study Guide, DynamoDB and Performance section.

NEW QUESTION # 324

A solutions architect is designing a REST API in Amazon API Gateway for a cash payback service. The application requires 1 GB of memory and 2 GB of storage for its computation resources. The application will require that the data is in a relational format.

Which additional combination of AWS services will meet these requirements with the LEAST administrative effort? {Select TWO.}

- A. Amazon DynamoDB
- B. Amazon EC2
- **C. AWS Lambda**
- **D. Amazon RDS**
- E. Amazon Elastic Kubernetes Services (Amazon EKS)

Answer: C,D

Explanation:

AWS Lambda is a service that lets users run code without provisioning or managing servers. It automatically scales and manages the underlying compute resources for the code. It supports multiple languages, such as Java, Python, Node.js, and Go1. By using AWS Lambda for the REST API, the solution can meet the requirements of 1 GB of memory and minimal administrative effort.

Amazon RDS is a service that makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups. It supports multiple database engines, such as MySQL, PostgreSQL, Oracle, and SQL Server2. By using Amazon RDS for the data store, the solution can meet the requirements of 2 GB of storage and a relational format.

a) Amazon EC2. This solution will not meet the requirement of minimal administrative effort, as Amazon EC2 is a service that

provides virtual servers in the cloud that users have to configure and manage themselves. It requires users to choose an instance type, an operating system, a security group, and other options³.

d) Amazon DynamoDB. This solution will not meet the requirement of a relational format, as Amazon DynamoDB is a service that provides a key-value and document database that delivers single-digit millisecond performance at any scale. It is a non-relational or NoSQL database that does not support joins or transactions.

e) Amazon Elastic Kubernetes Services (Amazon EKS). This solution will not meet the requirement of minimal administrative effort, as Amazon EKS is a service that provides a fully managed Kubernetes service that users have to configure and manage themselves. It requires users to create clusters, nodes groups, pods, services, and other Kubernetes resources.

Reference URL: <https://aws.amazon.com/lambda/>

NEW QUESTION # 325

A company runs an application on Amazon EC2 instances across multiple Availability Zones in the same AWS Region. The EC2 instances share an Amazon Elastic File System (Amazon EFS) volume that is mounted on all the instances. The EFS volume stores a variety of files such as installation media, third-party files, interface files, and other one-time files.

The company accesses some EFS files frequently and needs to retrieve the files quickly. The company accesses other files rarely.

The EFS volume is multiple terabytes in size. The company needs to optimize storage costs for Amazon EFS.

Which solution will meet these requirements with the LEAST effort?

- A. Apply a lifecycle policy to the EFS files to move the files to EFS Infrequent Access.
- B. Move the files to Amazon S3. Set up a lifecycle policy to move the files to S3 Glacier Flexible Retrieval.
- C. Move the files to Amazon Elastic Block Store (Amazon EBS) Cold HDD Volumes (sc1).
- D. Move the files to Amazon S3. Set up a lifecycle policy to move the rarely-used files to S3 Glacier Deep Archive.

Answer: A

Explanation:

Amazon EFS offers an Infrequent Access (IA) storage class, which can be managed via EFS lifecycle policies. Frequently accessed files remain in the Standard storage class, while infrequently accessed files are automatically moved to the IA class, significantly reducing storage costs with minimal effort and no application changes.

Reference Extract:

"EFS lifecycle management automatically transitions files that are not accessed for a set period to the EFS Infrequent Access (IA) storage class, reducing storage costs." Source: AWS Certified Solutions Architect - Official Study Guide, EFS and Lifecycle Management section.

NEW QUESTION # 326

A company is migrating its multi-tier on-premises application to AWS. The application consists of a single-node MySQL database and a multi-node web tier. The company must minimize changes to the application during the migration. The company wants to improve application resiliency after the migration.

Which combination of steps will meet these requirements? (Select TWO.)

- A. Migrate the database to an Amazon RDS Multi-AZ deployment.
- B. Migrate the database to an Amazon DynamoDB table.
- C. Migrate the database to Amazon EC2 instances in an Auto Scaling group behind a Network Load Balancer.
- D. Migrate the web tier to an AWS Lambda function.
- E. Migrate the web tier to Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer.

Answer: A,E

Explanation:

An Auto Scaling group is a collection of EC2 instances that share similar characteristics and can be scaled in or out automatically based on demand. An Auto Scaling group can be placed behind an Application Load Balancer, which is a type of Elastic Load Balancing load balancer that distributes incoming traffic across multiple targets in multiple Availability Zones. This solution will improve the resiliency of the web tier by providing high availability, scalability, and fault tolerance. An Amazon RDS Multi-AZ deployment is a configuration that automatically creates a primary database instance and synchronously replicates the data to a standby instance in a different Availability Zone. When a failure occurs, Amazon RDS automatically fails over to the standby instance without manual intervention. This solution will improve the resiliency of the database tier by providing data redundancy, backup support, and availability. This combination of steps will meet the requirements with minimal changes to the application during the migration.

References:

- 1 describes the concept and benefits of an Auto Scaling group.
- 2 provides an overview of Application Load Balancers and their benefits.
- 3 explains how Amazon RDS Multi-AZ deployments work and their benefits.

NEW QUESTION # 327

[Design High-Performing Architectures]

A company has a mobile chat application with a data store based in Amazon DynamoDB. Users would like new messages to be read with as little latency as possible. A solutions architect needs to design an optimal solution that requires minimal application changes. Which method should the solutions architect select?

- A. Configure Amazon DynamoDB Accelerator (DAX) for the new messages table. Update the code to use the DAX endpoint.
- B. Double the number of read capacity units for the new messages table in DynamoDB. Continue to use the existing DynamoDB endpoint.
- C. Add an Amazon ElastiCache for Redis cache to the application stack. Update the application to point to the Redis cache endpoint instead of DynamoDB.
- D. Add DynamoDB read replicas to handle the increased read load. Update the application to point to the read endpoint for the read replicas.

Answer: A

Explanation:

<https://aws.amazon.com/premiumsupport/knowledge-center/dynamodb-high-latency/> Amazon DynamoDB Accelerator (DAX) is a fully managed in-memory cache for DynamoDB that improves the performance of DynamoDB tables by up to 10 times and provides microsecond level of response time at any scale. It is compatible with DynamoDB API operations and requires minimal code changes to use. By configuring DAX for the new messages table, the solution can reduce the latency for reading new messages with minimal application changes.

B . Add DynamoDB read replicas to handle the increased read load. Update the application to point to the read endpoint for the read replicas. This solution will not work, as DynamoDB does not support read replicas as a feature. Read replicas are available for Amazon RDS, not for DynamoDB2.

C . Double the number of read capacity units for the new messages table in DynamoDB. Continue to use the existing DynamoDB endpoint. This solution will not meet the requirement of reading new messages with as little latency as possible, as increasing the read capacity units will only increase the throughput of DynamoDB, not the performance or latency3.

D . Add an Amazon ElastiCache for Redis cache to the application stack. Update the application to point to the Redis cache endpoint instead of DynamoDB. This solution will not meet the requirement of minimal application changes, as adding ElastiCache for Redis will require significant code changes to implement caching logic, such as querying cache first, updating cache after writing to DynamoDB, and invalidating cache when needed.

Reference URL: <https://aws.amazon.com/dynamodb/dax/>

NEW QUESTION # 328

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