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QUESTION 1

A company hosts a two-tier application on Amazon EC2 instances and Amazon RDS. The application's demand varies based on the time of day. The load is minimal after work hours and on weekends. The EC2 instances run in an EC2 Auto Scaling group that is configured with a minimum of two instances and a maximum of five instances. The application must be available at all times, but the company is concerned about overall cost.

Which solution meets the availability requirement MOST cost-effectively?

- A. Use all EC2 Spot Instances. Stop the RDS database when it is not in use.
- B. Purchase EC2 Instance Savings Plans to cover five EC2 instances. Purchase an RDS Reserved DB Instance.
- C. Purchase two EC2 Reserved Instances. Use up to three additional EC2 Spot Instances as needed. Stop the RDS database when it is not in use.
- D. Purchase EC2 Instance Savings Plans to cover two EC2 instances. Use up to three additional EC2 On-Demand Instances as needed. Purchase an RDS Reserved DB Instance.

Correct Answer: D

QUESTION 2

A company needs to provide its employee with secure access to confidential and sensitive files. The company wants to ensure that the files can be accessed only by authorized users. The files must be downloaded securely to the employees' devices.

The files are stored in an on-premises Windows file server. However, due to an increase in remote usage, the file server is out of capacity.

Which solution will meet these requirements?

- A. Migrate the file server to an Amazon EC2 instance in a public subnet. Configure the security group to limit inbound traffic to the employees' IP addresses.
- B. Migrate the files to an Amazon FSx for Windows File Server file system. Integrate the Amazon FSx file system with the on-premises Active Directory. Configure AWS Client VPN.
- C. Migrate the files to Amazon S3, and create a private VPC endpoint. Create a signed URL to allow download.
- D. Migrate the files to Amazon S3, and create a public VPC endpoint. Allow employees to sign on with AWS IAM identity Center (AWS Sing-On).

Correct Answer: B

This solution addresses the need for secure access to confidential and sensitive files, as well as the increase in remote usage. Migrating the files to Amazon FSx for Windows File Server provides a scalable, fully managed file storage solution in the AWS Cloud that is accessible from on-premises and cloud environments. Integration with the on-premises Active Directory allows for a consistent user experience and centralized access control. AWS Client VPN provides a secure and managed VPN solution that can be used by employees to access the files securely.

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The SAA-C03 Exam covers a wide range of topics, including AWS core services, security, networking, storage, databases, and AWS architecture best practices. Candidates must have a strong understanding of AWS services, such as Amazon Elastic Compute Cloud (EC2), Amazon Simple Storage Service (S3), Amazon Relational Database Service (RDS), and Amazon Virtual Private Cloud (VPC), as well as the ability to design and deploy highly available and fault-tolerant systems on the AWS platform.

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Amazon SAA-C03 Exam is a valuable certification for IT professionals who want to work with AWS cloud services. AWS Certified Solutions Architect - Associate certification validates the skills and knowledge required to design, deploy, and manage scalable, highly available, and fault-tolerant systems on the AWS platform. It is an essential certification for individuals who want to advance their careers in cloud computing and work for companies that use AWS services. AWS Certified Solutions Architect - Associate certification is also an excellent way for IT professionals to demonstrate their expertise and stand out in a competitive job market.

Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q288-Q293):

NEW QUESTION # 288

[Design High-Performing Architectures]

A company has a web application for travel ticketing. The application is based on a database that runs in a single data center in North America. The company wants to expand the application to serve a global user base. The company needs to deploy the application to multiple AWS Regions. Average latency must be less than 1 second on updates to the reservation database. The company wants to have separate deployments of its web platform across multiple Regions. However the company must maintain a single primary reservation database that is globally consistent.

Which solution should a solutions architect recommend to meet these requirements?

- **A. Migrate the database to an Amazon Aurora MySQL database. Deploy Aurora Read Replicas in each Region. Use the correct Regional endpoint in each Regional deployment for access to the database.**
- B. Convert the application to use Amazon DynamoDB. Use a global table for the center reservation table. Use the correct Regional endpoint in each Regional deployment.
- C. Migrate the application to an Amazon Aurora Serverless database. Deploy instances of the database to each Region. Use the correct Regional endpoint in each Regional deployment to access the database. Use AWS Lambda functions to process event streams in each Region to synchronize the databases.
- D. Migrate the database to an Amazon RDS for MySQL database. Deploy MySQL read replicas in each Region. Use the correct Regional endpoint in each Regional deployment for access to the database.

Answer: A

Explanation:

<https://aws.amazon.com/rds/aurora/global-database/>

<https://aws.amazon.com/blogs/architecture/using-amazon-aurora-global-database-for-low-latency-without-application-changes/>

NEW QUESTION # 289

A company runs an online marketplace web application on AWS. The application serves hundreds of thousands of users during peak hours. The company needs a scalable, near-real-time solution to share the details of millions of financial transactions with several other internal applications. Transactions also need to be processed to remove sensitive data before being stored in a document database for low-latency retrieval.

What should a solutions architect recommend to meet these requirements?

- A. Store the batched transactions data in Amazon S3 as files. Use AWS Lambda to process every file and remove sensitive data before updating the files in Amazon S3. The Lambda function then stores the data in Amazon DynamoDB. Other applications can consume transaction files stored in Amazon S3.
- B. Store the transactions data into Amazon DynamoDB. Set up a rule in DynamoDB to remove sensitive data from every transaction upon write. Use DynamoDB Streams to share the transactions data with other applications.
- C. Stream the transactions data into Amazon Kinesis Data Firehose to store data in Amazon DynamoDB and Amazon S3. Use AWS Lambda integration with Kinesis Data Firehose to remove sensitive data. Other applications can consume the data stored in Amazon S3.
- **D. Stream the transactions data into Amazon Kinesis Data Streams. Use AWS Lambda integration to remove sensitive data from every transaction and then store the transactions data in Amazon DynamoDB. Other applications can consume the transactions data off the Kinesis data stream.**

Answer: D

Explanation:

The destination of your Kinesis Data Firehose delivery stream. Kinesis Data Firehose can send data records to various destinations, including Amazon Simple Storage Service (Amazon S3), Amazon Redshift, Amazon OpenSearch Service, and any HTTP endpoint that is owned by you or any of your third-party service providers. The following are the supported destinations:

- * Amazon OpenSearch Service
- * Amazon S3
- * Datadog
- * Dynatrace
- * Honeycomb
- * HTTP Endpoint
- * Logic Monitor
- * MongoDB Cloud
- * New Relic
- * Splunk
- * Sumo Logic

<https://docs.aws.amazon.com/firehose/latest/dev/create-name.html>

<https://aws.amazon.com/kinesis/data-streams/>

Amazon Kinesis Data Streams (KDS) is a massively scalable and durable real-time data streaming service.

KDS can continuously capture gigabytes of data per second from hundreds of thousands of sources such as website clickstreams, database event streams, financial transactions, social media feeds, IT logs, and location-tracking events.

NEW QUESTION # 290

A company is building an application on AWS. The application uses multiple AWS Lambda functions to retrieve sensitive data from a single Amazon S3 bucket for processing. The company must ensure that only authorized Lambda functions can access the data. The solution must comply with the principle of least privilege. Which solution will meet these requirements?

- **A. Create individual IAM roles for each Lambda function. Grant the IAM roles access to the S3 bucket. Assign each IAM role as the Lambda execution role for its corresponding Lambda function.**
- B. Grant full S3 bucket access to all Lambda functions through a shared IAM role.
- C. Configure a bucket policy granting access to the Lambda functions based on their function ARNs.
- D. Configure the Lambda functions to run within a VPC. Configure a bucket policy to grant access based on the Lambda functions' VPC endpoint IP addresses.

Answer: A

NEW QUESTION # 291

[Design Secure Architectures]

A company runs a critical data analysis job each week before the first day of the work week. The job requires at least 1 hour to complete the analysis. The job is stateful and cannot tolerate interruptions. The company needs a solution to run the job on AWS. Which solution will meet these requirements?

- A. Configure an AWS DataSync task to run the job. Configure a cron expression to run the task on a schedule.
- B. Configure the job to run in an AWS Lambda function. Create a scheduled rule in Amazon EventBridge to invoke the Lambda function.
- **C. Create a container for the job. Schedule the job to run as an AWS Fargate task on an Amazon Elastic Container Service (Amazon ECS) cluster by using Amazon EventBridge Scheduler.**
- D. Configure an Auto Scaling group of Amazon EC2 Spot Instances that run Amazon Linux. Configure a crontab entry on the instances to run the analysis.

Answer: C

Explanation:

Understanding the Requirement: The job is stateful, cannot tolerate interruptions, and needs to run reliably for at least one hour each week.

Analysis of Options:

AWS Fargate with Amazon ECS and EventBridge: This option provides a serverless compute engine for containers that can run stateful tasks reliably. Using EventBridge Scheduler, the job can be triggered automatically at the specified time without manual intervention.

AWS Lambda with EventBridge: Lambda functions are not suitable for long-running stateful jobs since they have a maximum execution time of 15 minutes.

EC2 Spot Instances: Spot Instances can be interrupted, making them unsuitable for a stateful job that cannot tolerate interruptions.

AWS DataSync: This service is primarily for moving large amounts of data and is not designed to run stateful analysis jobs.

Best Option for Reliable, Scheduled Execution:

The Fargate task on ECS with EventBridge Scheduler meets all requirements, providing the necessary reliability and scheduling capabilities without interruption risks.

Reference:

Amazon ECS

AWS Fargate

Amazon EventBridge

NEW QUESTION # 292

A company hosts its core network services, including directory services and DNS, in its on-premises data center. The data center is connected to the AWS Cloud using AWS Direct Connect (DX). Additional AWS accounts are planned that will require quick, cost-effective, and consistent access to these network services.

What should a solutions architect implement to meet these requirements with the LEAST amount of operational overhead?

- A. Configure VPC endpoints in the DX VPC for all required services. Route the network traffic to the on-premises servers.
- B. Create a DX connection in each new account. Route the network traffic to the on-premises servers.
- C. Configure AWS Transit Gateway between the accounts. Assign DX to the transit gateway and route network traffic to the on-premises servers.
- D. Create a VPN connection between each new account and the DX VPC. Route the network traffic to the on-premises servers.

Answer: C

Explanation:

* Requirement Analysis: Need quick, cost-effective, and consistent access to on-premises network services from multiple AWS accounts.

* AWS Transit Gateway: Centralizes and simplifies network management by connecting VPCs and on-premises networks.

* Direct Connect Integration: Assigning DX to the transit gateway ensures consistent and high-performance connectivity.

* Operational Overhead: Minimal because Transit Gateway simplifies routing and management.

* Implementation:

* Set up AWS Transit Gateway.

* Connect new AWS accounts to the Transit Gateway.

* Route traffic through Transit Gateway to on-premises servers via Direct Connect.

* Conclusion: This solution provides a scalable, cost-effective, and low-overhead method to meet connectivity requirements.

References

* AWS Transit Gateway: AWS Transit Gateway Documentation

NEW QUESTION # 293

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