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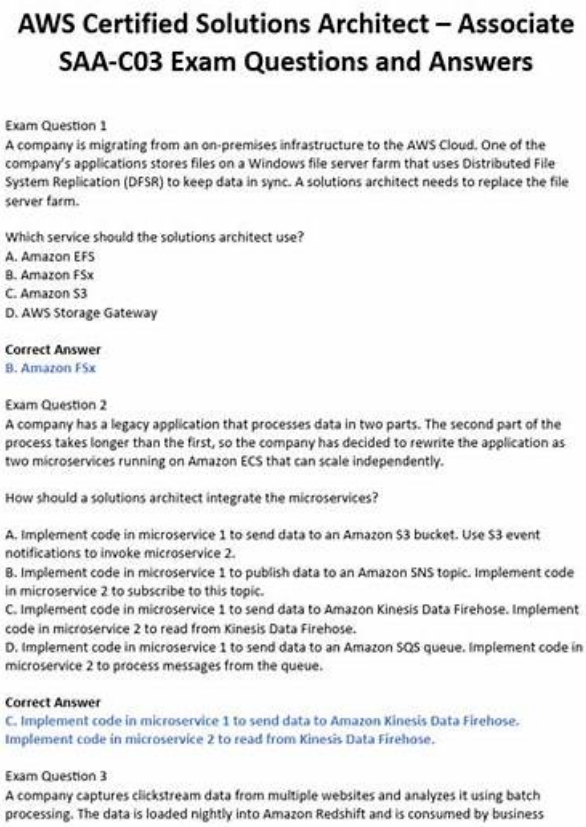

AWS Certified Solutions Architect – Associate
SAA-C03 Exam Questions and Answers

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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Individuals who want to take the Amazon SAA-C03 Exam must have a good 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). They should also have a good understanding of AWS architectural best practices, such as designing highly available and scalable systems, selecting appropriate AWS services for a given scenario, and estimating costs.

Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q597-Q602):

NEW QUESTION # 597
A company is launching a new application that will be hosted on Amazon EC2 instances. A solutions architect needs to design a solution that does not allow public IPv4 access that originates from the internet. However, the solution must allow the EC2 instances to make outbound IPv4 internet requests.

- A. Deploy an egress-only internet gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet.
- B. Deploy an internet gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets.
- C. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure a shared route table for the private subnets.
- D. Deploy a NAT gateway in public subnets in both Availability Zones. Create and configure one route table for each private subnet.

Answer: C

Explanation:
Why Option C is Correct:
NAT Gateway: Allows private subnets to access the internet for outbound requests while preventing inbound connections.
High Availability: Deploying NAT gateways in both AZs ensures fault tolerance.
Shared Route Table: Simplifies routing configuration for private subnets.
Why Other Options Are Not Ideal:
Option A: Creating separate route tables for each subnet adds unnecessary complexity.
Option B: Internet gateways allow inbound access, violating the requirement to block public IPv4 access.
Option D: Egress-only internet gateways are designed for IPv6, not IPv4.
AWS Reference:
Amazon VPC NAT Gateway:AWS Documentation - NAT Gateway

NEW QUESTION # 598
A hospital wants to create digital copies for its large collection of historical written records. The hospital will continue to add hundreds of new documents each day. The hospital's data team will scan the documents and will upload the documents to the AWS Cloud.
A solutions architect must implement a solution to analyze the documents, extract the medical information, and store the documents so that an application can run SQL queries on the data. The solution must maximize scalability and operational efficiency.
Which combination of steps should the solutions architect take to meet these requirements? (Select TWO.)

- A. Create an AWS Lambda function that runs when new documents are uploaded. Use Amazon Rekognition to convert the documents to raw text. Use Amazon Transcribe Medical to detect and extract relevant medical information from the text.
- B. Create an Auto Scaling group of Amazon EC2 instances to run a custom application that processes the scanned files and extracts the medical information.
- C. Write the document information to an Amazon EC2 instance that runs a MySQL database.
- D. Write the document information to an Amazon S3 bucket. Use Amazon Athena to query the data.
- E. Create an AWS Lambda function that runs when new documents are uploaded. Use Amazon Textract to convert the documents to raw text. Use Amazon Comprehend Medical to detect and extract relevant medical information from the text.

Answer: D,E

Explanation:
Explanation

This solution meets the requirements of creating digital copies for a large collection of historical written records, analyzing the documents, extracting the medical information, and storing the documents so that an application can run SQL queries on the data. Writing the document information to an Amazon S3 bucket can provide scalable and durable storage for the scanned files. Using Amazon Athena to query the data can provide serverless and interactive SQL analysis on data stored in S3. Creating an AWS Lambda function that runs when new documents are uploaded can provide event-driven and serverless processing of the scanned files. Using Amazon Textract to convert the documents to raw text can provide accurate optical character recognition (OCR) and extraction of structured data such as tables and forms from documents using artificial intelligence (AI). Using Amazon Comprehend Medical to detect and extract relevant medical information from the text can provide natural language processing (NLP) service that uses machine learning that has been pre-trained to understand and extract health data from medical text.
Option A is incorrect because writing the document information to an Amazon EC2 instance that runs a MySQL database can increase the infrastructure overhead and complexity, and it may not be able to handle large volumes of data. Option C is incorrect because creating an Auto Scaling group of Amazon EC2 instances to run a custom application that processes the scanned files and extracts the medical information can increase the infrastructure overhead and complexity, and it may not be able to leverage existing AI and NLP services such as Textract and Comprehend Medical. Option D is incorrect because using Amazon Rekognition to convert the documents to raw text can provide image and video analysis, but it does not support OCR or extraction of structured data from documents. Using Amazon Transcribe Medical to detect and extract relevant medical information from the text can provide speech-to-text transcription service for medical conversations, but it does not support text analysis or extraction of health data from medical text.
References:
* https://aws.amazon.com/s3/
* https://aws.amazon.com/athena/
* https://aws.amazon.com/lambda/
* https://aws.amazon.com/textract/
* https://aws.amazon.com/comprehend/medical/

NEW QUESTION # 599
A healthcare company is running an Amazon EMR cluster on Amazon EC2 instances to process data that is stored in Amazon S3. The company must ensure that the data processing jobs have access only to the relevant data in Amazon S3. Each job must have specific EMR runtime roles.
Which combination of steps will meet these requirements? (Select THREE.)

- A. Set up an EC2 instance profile for the Amazon EMR cluster to assume the runtime roles.
- B. Set up security configurations in Amazon EMR, and set EnableInTransitEncryption to true.
- C. Set up security configurations in Amazon EMR, and set EnableApplicationScopedIAMRole to true.
- D. For each IAM role that serves as an EMR runtime role, set up a trust policy with the EC2 instance profile role.
- E. Set up runtime roles to assume the EC2 instance profile of the Amazon EMR cluster.
- F. Establish a trust policy between the EMR runtime roles and the EMR service role of the cluster.

Answer: A,C,D

Explanation:
Amazon EMR on EC2 supports "runtime roles (application-scoped IAM roles)" so each application/step assumes its own IAM role with least-privilege S3 access. You enable this via an EMR security configuration by setting "EnableApplicationScopedIAMRole = true." The EMR core/Task nodes run under the cluster's EC2 instance profile; therefore the instance profile must be permitted to "sts:AssumeRole" into the defined EMR runtime roles, and each runtime role must trust the instance profile (trust policy principal is the instance profile role). This design limits each job's S3 scope via role policies and enforces per-job access segregation.
Option B reverses the trust (incorrect). Option E trusts the EMR service role (not used to assume runtime roles). Option F is unrelated (encryption in transit). The correct trio is to enable application-scoped roles (A), authorize the instance profile to assume them (C), and configure the runtime roles' trust relationship to allow that assumption (D).
References: Amazon EMR Management Guide - EMR Runtime Roles / Application-scoped IAM roles; IAM Roles and Trust Policies; EMR Security Configuration settings.

NEW QUESTION # 600
A company's application Is having performance issues The application staleful and needs to complete m-memory tasks on Amazon EC2 instances. The company used AWS CloudFormation to deploy infrastructure and used the M5 EC2 Instance family As traffic increased, the application performance degraded Users are reporting delays when the users attempt to access the application.
Which solution will resolve these issues in the MOST operationally efficient way?

- A. Modify the CloudFormation templates. Replace the EC2 instances with R5 EC2 instances. Use Amazon CloudWatch built-in EC2 memory metrics to track the application performance for future capacity planning.
- B. Modify the CloudFormation templates. Replace the EC2 instances with R5 EC2 instances. Deploy the Amazon CloudWatch agent on the EC2 instances to generate custom application latency metrics for future capacity planning.
- C. Modify the CloudFormation templates to run the EC2 instances in an Auto Scaling group. Increase the desired capacity and the maximum capacity of the Auto Scaling group manually when an increase is necessary
- D. Replace the EC2 Instances with T3 EC2 instances that run in an Auto Scaling group. Made the changes by using the AWS Management Console.

Answer: B

Explanation:
Explanation
https://aws.amazon.com/premiumsupport/knowledge-center/cloudwatch-memory-metrics-ec2/

NEW QUESTION # 601
[Design Secure Architectures]
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.
Reference
AWS Transit Gateway:AWS Transit Gateway Documentation

NEW QUESTION # 602
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