Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)

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NEW QUESTION 1
A solutions architect is tasked with transferring 750 TB of data from a network-attached file system located at a branch office to Amazon S3 Glacier The solution must avoid saturating the branch office's low-bandwidth internet connection
What is the MOST cost-effective solution1?

A. Create a site-to-site VPN tunnel to an Amazon S3 bucket and transfer the files directly Create a bucket policy to enforce a VPC endpoint
B. Order 10 AWS Snowball appliances and select an S3 Glacier vault as the destination Create a bucket policy to enforce a VPC endpoint
C. Mount the network-attached file system to Amazon S3 and copy the files directl
D. Create a lifecycle policy to transition the S3 objects to Amazon S3 Glacier
E. Order 10 AWS Snowball appliances and select an Amazon S3 bucket as the destination Create a lifecycle policy to transition the S3 objects to Amazon S3 Glacier

Answer: D

NEW QUESTION 2
A company has deployed an API in a VPC behind an internet-facing Application Load Balancer (ALB) An application that consumes the API as a client is deployed in a second account in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. A solutions architect has configured the ALB to be internal.
Which combination of architectural changes will reduce the NAT gateway costs'? (Select TWO)

A. Configure a VPC peering connection between the two VPC
B. Access the API using the private address
C. Configure an AWS Direct Connect connection between the two VPC
D. Access the API using the private address.
E. Configure a ClassicLink connection for the API into the client VPC Access the API using the ClassicLink address.
F. Configure a PrivateLink connection for the API into the client VP
G. Access the API using the PrivateLink address.
H. Configure an AWS Resource Access Manager connection between the two accounts Access the API using the private address

Answer: DE

NEW QUESTION 3
A company hosts a static website on-premises and wants to migrate the website to AWS The website should load as quickly as possible for users around the world The company also wants the most cost-effective solution
What should a solutions architect do to accomplish this?

A. Copy the website content to an Amazon S3 bucket Configure the bucket to serve static webpage content Replicate the S3 bucket to multiple AWS Regions
B. Copy the website content to an Amazon S3 bucket Configure the bucket to serve static webpage content Configure Amazon CloudFront with the S3 bucket as the origin
C. Copy the website content to an Amazon EBS-backed Amazon EC2 instance running Apache HTTP Server Configure Amazon Route 53 geolocation routing policies to select the closest origin
D. Copy the website content to multiple Amazon EBS-backed Amazon EC2 instances running Apache HTTP Server in multiple AWS Regions Configure Amazon CloudFront geolocation routing policies to select the closest origin

Answer: B

NEW QUESTION 4
A solutions architect is designing a solution where users will De directed to a backup static error page it the primary website is unavailable The primary website's DNS records are hosted in Amazon Route 53 where their domain is pointing to an Application Load Balancer (ALB)
Which configuration should the solutions architect use to meet the company's needs while minimizing changes and infrastructure overhead?

A. Point a Route 53 alias record to an Amazon CloudFront distribution with the ALB as one of its origins Then, create custom error pages for the distribution
B. Set up a Route 53 active-passive failover configuration Direct traffic to a static error page hosted within an Amazon S3 bucket when Route 53 health checks determine that the ALB endpoint is unhealthy
C. Update the Route 53 record to use a latency-based routing policy Add the backup static error page hosted within an Amazon S3 bucket to the record so the traffic is sent to the most responsive endpoints
D. Set up a Route 53 active-active configuration with the ALB and an Amazon EC2 instance hosting a static error page as endpoints Route 53 will only send requests to the instance if the health checks fail for the ALB

Answer: B

NEW QUESTION 5
A company is hosting a website behind multiple Application Load Balancers. The company has different distribution rights for its content around the world. A solutions architect needs to ensure that users are served the correct content without violating distribution rights.
Which configuration should the solutions architect choose to meet these requirements?
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A. Configure Amazon CloudFront with AWS WAF.
B. Configure Application Load Balancers with AWS WAF.
C. Configure Amazon Route 53 with a geolocation policy.
D. Configure Amazon Route 53 with a geoproximity routing policy.

Answer: C

NEW QUESTION 6
A company is running an ecommerce application on Amazon EC2 The application consists of a stateless web tier that requires a minimum of 10 instances, and a

peak of 250 instances to support the application's usage The application requires 50 instances 80% of the time
Which solution should be used to minimize costs?

A. Purchase Reserved Instances to cover 250 instances
B. Purchase Reserved Instances to cover 80 instances Use Spot Instances to cover the remaining instances
C. Purchase On-Demand Instances to cover 40 instances Use Spot Instances to cover the remaining instances
D. Purchase Reserved Instances to cover 50 instances Use On-Demand and Spot Instances to cover the remaining instances

Answer: D

NEW QUESTION 7
A company's website is using an Amazon RDS MySQL Multi-AZ DB instance for its transactional data storage.
There are other internal systems that query this DB instance to fetch data for internal batch processing. The RDS DB instance slows down significantly the internal systems fetch data. This impacts the website's read and write performance, and the users experience slow response times.
Which solution will improve the website's performance?

A. Use an RDS PostgreSQL DB instance instead of a MySQL database.
B. Use Amazon ElastiCache to cache the query responses for the website.
C. Add an additional Availability Zone to the current RDS MySQL Multi.AZ DB instance.
D. Add a read replica to the RDS DB instance and configure the internal systems to query the read replica.

Answer: D

NEW QUESTION 8
A company is planning to migrate a business-critical dataset to Amazon S3. The current solution design uses a single S3 bucket in the us-east-1 Region with versioning enabled to store the dataset. The company's disaster recovery policy states that all data multiple AWS Regions.
How should a solutions architect design the S3 solution?

A. Create an additional S3 bucket in another Region and configure cross-Region replication.
B. Create an additional S3 bucket in another Region and configure cross-origin resource sharing (CORS).
C. Create an additional S3 bucket with versioning in another Region and configure cross-Region replication.
D. Create an additional S3 bucket with versioning in another Region and configure cross-origin resource (CORS).

Answer: C

NEW QUESTION 9
An application runs on Amazon EC2 instances across multiple Availability Zones The instances run in an Amazon EC2 Auto Scaling group behind an Application Load Balancer The application performs best when the CPU utilization of the EC2 instances is at or near 40%
What should a solutions architect do to maintain the desired performance across all instances m the group?

A. Use a simple scaling policy to dynamically scale the Auto Scaling group
B. Use a target tracking policy to dynamically scale the Auto Scaling group
C. Use an AWS Lambda function to update the desired Auto Scaling group capacity
D. Use scheduled scaling actions to scale up and scale down the Auto Scaling group

Answer: D

NEW QUESTION 10
A company has application running on Amazon EC2 instances in a VPC. One of the applications needs to call an Amazon S3 API to store and read objects. The company's security policies restrict any internet-bound traffic from the applications.
Which action will fulfill these requirements and maintain security?

A. Configure an S3 interface endpoint.
B. Configure an S3 gateway endpoint.
C. Create an S3 bucket in a private subnet.
D. Create an S3 bucket in the same Region as the EC2 instance.

Answer: C

NEW QUESTION 10
A solutions architect is designing a solution to access a catalog of images and provide users with the ability to submit requests to customize images Image customization parameters will be in any request sent to an AWS API Gateway API The customized image will be generated on demand, and users will receive a link they can click to view or download their customized image The solution must be highly available for viewing and customizing images
What is the MOST cost-effective solution to meet these requirements?

A. Use Amazon EC2 instances to manipulate the original image into the requested customization Store the original and manipulated images in Amazon S3 Configure an Elastic Load Balancer in front of the EC2 instances
B. Use AWS Lambda to manipulate the original image to the requested customization Store the original and manipulated images in Amazon S3 Configure an Amazon CloudFront distribution with the S3 bucket as the origin
C. Use AWS Lambda to manipulate the original image to the requested customization Store the original images in Amazon S3 and the manipulated images in Amazon DynamoDB Configure an Elastic Load Balancer in front of the Amazon EC2 instances
D. Use Amazon EC2 instances to manipulate the original image into the requested customization Store the original images in Amazon S3 and the manipulated images in Amazon DynamoDB Configure an Amazon CloudFront distribution with the S3 bucket as the origin

Answer: B

NEW QUESTION 14

A solutions architect at an ecommerce company wants to back up application log data to Amazon S3 The solutions architect is unsure how frequently the logs will be accessed or which logs will be accessed the most The company wants to keep costs as low as possible by using the appropriate S3 storage class.
Which S3 storage class should be implemented to meet these requirements?

A. S3 Glacier
B. S3 Intelligent-Tiering
C. S3 Standard-Infrequent Access (S3 Standard-IA)
D. S3 One Zone-Infrequent Access (S3 One Zone-IA)

Answer: D

Explanation:
S3 One Zone-IA is for data that is accessed less frequently, but requires rapid access when needed. Unlike other S3 Storage Classes which store data in a minimum of three Availability Zones (AZs), S3 One Zone-IA stores data in a single AZ and costs 20% less than S3 Standard-IA. S3 One Zone-IA is ideal for customers who want a lower-cost option for infrequently accessed data but do not require the availability and resilience of S3 Standard or S3 Standard-IA. It's a good choice for storing secondary backup copies of on-premises data or easily re-creatable data. You can also use it as cost-effective storage for data that is replicated from another AWS Region using S3 Cross-Region Replication.

NEW QUESTION 17
A company wants to host a scalable web application on AWS. The application will be accessed by users from different geographic regions of the world. Application users will be able to download and upload unique data up to gigabytes in size. The development team wants a cost-effective solution to minimize upload and download latency and maximize performance.
What should a solutions architect do to accomplish this?

A. Use Amazon S3 with Transfer Acceleration to host the application.
B. Use Amazon S3 with CacheControl headers to host the application.D18912E1457D5D1DDCBD40AB3BF70D5D
C. Use Amazon EC2 with Auto Scaling and Amazon CloudFront to host the application.
D. Use Amazon EC2 with Auto Scaling and Amazon ElastiCache to host the application.

Answer: C

NEW QUESTION 18
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 analysts. The company wants to move towards near-real-time data processing for timely insights. The solution should process the streaming data with minimal effort and operational overhead.
Which combination of AWS services are MOST cost-effective for this solution? (Choose two.)

A. Amazon EC2
B. AWS Lambda
C. Amazon Kinesis Data Streams
D. Amazon Kinesis Data Firehose
E. Amazon Kinesis Data Analytics

Answer: AD

NEW QUESTION 19
A solutions architect is designing storage for a high performance computing (HPC) environment based on Amazon Linux. The workload stores and processes a large amount of engineering drawings that require shared storage and heavy computing.
Which storage option would be the optimal solution?

A. Amazon Elastic File System (Amazon EFS)
B. Amazon FSx for Lustre
C. Amazon EC2 instance store
D. Amazon EBS Provisioned IOPS SSD (io1)

Answer: B

NEW QUESTION 22
A media streaming company collects real-time data and stores it in a disk-optimized database system The company is not getting the expected throughput and wants an in-memory database storage solution that performs faster and provides high availability using data replication.
Which database should a solutions architect recommend'?

A. Amazon RDS for MySQL
B. Amazon RDS for PostgreSQL
C. Amazon ElastiCache for Redis
D. Amazon ElastiCache for Memcached

Answer: C

NEW QUESTION 27
A company has been storing analytics data in an Amazon RDS instance for the past few years. The company asked a solutions architect to find a solution that allows users to access this data using an API The expectation is that the application will experience periods of inactivity but could receive bursts of traffic within seconds
Which solution should the solutions architect suggest?

A. Set up an Amazon API Gateway and use Amazon ECS.
B. Set up an Amazon API Gateway and use AWS Elastic Beanstalk.
C. Set up an Amazon API Gateway and use AWS Lambda functions

D. Set up an Amazon API Gateway and use Amazon EC2 with Auto Scaling

Answer: C

NEW QUESTION 28
A company hosts an application on multiple Amazon EC2 instances The application processes messages from an Amazon SQS queue writes to an Amazon RDS table and deletes the message from the queue Occasional duplicate records are found in the RDS table The SQS queue does not contain any duplicate messages What should a solutions archived do to ensure messages are being processed once only?

A. Use the CreateQueue API call to create a new queue
B. Use the AddPermission API call to add appropriate permissions
C. Use the ReceiveMessage API call to set an appropriate wait time.
D. Use the ChangeMessageVisibility API call to increase the visibility timeout

Answer: D

NEW QUESTION 31
A company is migrating a three-tier application to AWS. The application requires a MySQL database. In the past, the application users reported poor application performance when creating new entries. These
performance issues were caused by users generating different real-time reports from the application duringworking hours.
Which solution will improve the performance of the application when it is moved to AWS?

A. Import the data into an Amazon DynamoDB table with provisioned capacit
B. Refactor the application to use DynamoDB for reports.
C. Create the database on a compute optimized Amazon EC2 instanc
D. Ensure compute resources exceed the on-premises database.
E. Create an Amazon Aurora MySQL Multi-AZ DB cluster with multiple read replica
F. Configure the application reader endpoint for reports.
G. Create an Amazon Aurora MySQL Multi-AZ DB cluste
H. Configure the application to use the backup instance of the cluster as an endpoint for the reports.

Answer: B

NEW QUESTION 35
A solutions architect is designing a web application that will run on Amazon EC2 instances behind an Application Load Balancer (ALB) The company strictly requires that the application be resilient against malicious internet activity and attacks, and protect against new common vulnerabilities and exposures
What should the solutions architect recommend?

A. Leverage Amazon CloudFront with the ALB endpoint as the origin
B. Deploy an appropriate managed rule for AWS WAF and associate it with the ALB
C. Subscribe to AWS Shield Advanced and ensure common vulnerabilities and exposures are blocked
D. Configure network ACLs and security groups to allow only ports 80 and 443 to access the EC2 instances

Answer: B

NEW QUESTION 36
A company has an application that calls AWS Lambda functions A recent code review found database credentials stored in the source code The database credentials need to be removed from the Lambda source code The credentials must then be securely stored and rotated on an ongoing basis to meet security policy requirements
What should a solutions architect recommend to meet these requirements?

A. Store the password in AWS CloudHSM Associate the Lambda function with a role that can retrieve the password from CloudHSM given its key ID
B. Store the password in AWS Secrets Manager Associate the Lambda function with a role that can retrieve the password from Secrets Manager given its secret ID
C. Move the database password to an environment variable associated with the Lambda function Retrieve the password from the environment variable upon execution
D. Store the password in AWS Key Management Service (AWS KMS) Associate the Lambda function with a role that can retrieve the password from AWS KMS given its key ID

Answer: B

NEW QUESTION 40
A solutions architect is designing an application for a two-step order process The first step is synchronous and must return to the user with little latency The second step takes longer, so it will be implemented in a separate component Orders must be processed exactly once and in the order in which they are received
How should the solutions architect integrate these components?

A. Use Amazon SQS FIFO queues.
B. Use an AWS Lambda function along with Amazon SQS standard queues
C. Create an SNS topic and subscribe an Amazon SQS FIFO queue to that topic
D. Create an SNS topic and subscribe an Amazon SQS Standard queue to that topic.

Answer: C

NEW QUESTION 45
A company runs a multi-tier web application that hosts news content The application runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an EC2 Auto Scaling group across multiple Availability Zones and use an Amazon Aurora database. A solutions architect needs to make the application more resilient to periodic increases in request rates

Which architecture should the solutions architect implement? (Select TWO)

A. Add AWS Shield.
B. Add Aurora Replicas
C. Add AWS Direct Connect
D. Add AWS Global Accelerator.
E. Add an Amazon CloudFront distribution in front of the Application Load Balancer

Answer: DE

NEW QUESTION 49
A company allows its developers to attach existing 1AM policies to existing 1AM roles to enable (aster experimentation and agility However the security operations team is concerned that the developers could attach the existing administrator policy, which would allow the developers to circumvent any other security policies How should a solutions architect address this issue?

A. Create an Amazon SNS topic to send an alert every time a developer creates a new policy
B. Use service control policies to disable IAM activity across all accounts in the organizational unit
C. Prevent the developers from attaching any policies and assign all 1AM duties to the security operations team
D. Set an IAM permissions boundary on the developer 1AM role that explicitly denies attaching the administrator policy

Answer: D

Explanation:
https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_boundaries.html

NEW QUESTION 51
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