

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 solution?

- 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 directly.
- 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 static website is within an Amazon S3 bucket. A solutions architect needs to make the website available globally. Which action will accomplish this?

- A. Enable Amazon S3 versioning.
- B. Enable Amazon S3 Intelligent-Tiering.
- C. Enable an Amazon S3 lifecycle policy.
- D. Enable Amazon S3 cross-Region replication.

Answer: A

NEW QUESTION 3

A company's website runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The website has a mix of dynamic and static content. Users around the globe are reporting that the website is slow. Which set of actions will improve website performance for users worldwide?

- A. Create an Amazon CloudFront distribution and configure the ALB as an origin. Then update the Amazon Route 53 record to point to the CloudFront distribution.
- B. Create a latency-based Amazon Route 53 record for the ALB. Then launch new EC2 instances with larger instance sizes and register the instances with the ALB.
- C. Launch new EC2 instances in different Regions closer to the users. Then register the instances with the same ALB using cross-Region VPC peering.
- D. EC2 instances hosting the same web application in different Regions closer to the users. Then register the instances with the same ALB using cross-Region VPC peering.
- E. Host the website in an Amazon S3 bucket in the Regions closest to the users and delete the ALB and EC2 instances. Then update an Amazon Route 53 record to point to the S3 buckets.

Answer: A

NEW QUESTION 4

A manufacturing company wants to implement predictive maintenance on its machinery equipment. The company will install thousands of IoT sensors that will send data to AWS in real time. A solutions architect is tasked with implementing a solution that will receive events in an ordered manner for each machinery asset and ensure that data is saved for further processing at a later time. Which solution would be MOST efficient?

- A. Use Amazon Kinesis Data Streams for real-time events with a partition for each equipment asset. Use Amazon Kinesis Data Firehose to save data to Amazon S3.
- B. Use Amazon Kinesis Data Streams for real-time events with a shard for each equipment asset. Use Amazon Kinesis Data Firehose to save data to Amazon EBS.
- C. Use an Amazon SQS FIFO queue for real-time events with one queue for each equipment asset. Trigger an AWS Lambda function for the SQS queue to save data to Amazon EFS.
- D. Use an Amazon SQS standard queue for real-time events with one queue for each equipment asset. Trigger an AWS Lambda function from the SQS queue to save data to Amazon S3.

Answer: A

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?

- 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 recently acquired company is required to build its own infrastructure on AWS and migrate multiple applications to the cloud within a month. Each application has approximately 50 TB of data to be transferred. After the migration is complete, this company and its parent company will both require secure network connectivity with consistent throughput from their data centers to the applications. A solutions architect must ensure one-time data migration and ongoing network connectivity. Which solution will meet these requirements?

- A. AWS Direct Connect for both the initial transfer and ongoing connectivity
- B. AWS Site-to-Site VPN for both the initial transfer and ongoing connectivity
- C. AWS Snowball for the initial transfer and AWS Direct Connect for ongoing connectivity
- D. AWS Snowball for the initial transfer and AWS Site-to-Site VPN for ongoing connectivity

Answer: C

NEW QUESTION 9

A company serves content to its subscribers across the world using an application running on AWS. The application has several Amazon EC2 instances in a private subnet behind an Application Load Balancer (ALB). Due to a recent change in copyright restrictions, the chief information officer (CIO) wants to block access for certain countries.

Which action will meet these requirements?

- A. Modify the ALB security group to deny incoming traffic from blocked countries
- B. Modify the security group for EC2 instances to deny incoming traffic from blocked countries
- C. Use Amazon CloudFront to serve the application and deny access to blocked countries
- D. Use ALB listener rules to return access denied responses to incoming traffic from blocked countries

Answer: C

NEW QUESTION 10

A company's web application is using multiple Linux Amazon EC2 instances and storing data on Amazon EBS volumes. The company is looking for a solution to increase the resiliency of the application in case of a failure and to provide storage that complies with atomicity, consistency, isolation, and durability (ACID).

What should a solutions architect do to meet these requirements?

- A. Launch the application on EC2 instances in each Availability Zone
- B. Attach EBS volumes to each EC2 instance.
- C. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Mount an instance store on each EC2 instance.
- D. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Store data on Amazon EFS and mount a target on each instance.
- E. Create an Application Load Balancer with Auto Scaling groups across multiple Availability Zones. Store data using Amazon S3 One Zone-Infrequent Access (S3 One Zone-IA).

Answer: C

NEW QUESTION 10

A start-up company has a web application based in the us-east-1 Region with multiple Amazon EC2 instances running behind an Application Load Balancer across multiple Availability Zones. As the company's user base grows in the us-west-1 Region, it needs a solution with low latency and high availability.

What should a solutions architect do to accomplish this?

- A. Provision EC2 instances in us-west-1. Switch the Application Load Balancer to a Network Load Balancer to achieve cross-Region load balancing.
- B. Provision EC2 instances and an Application Load Balancer in us-west-1. Make the load balancer distribute the traffic based on the location of the request.
- C. Provision EC2 instances and configure an Application Load Balancer in us-west-1. Create an accelerator in AWS Global Accelerator that uses an endpoint group that includes the load balancer endpoints in both Regions.
- D. Provision EC2 instances and configure an Application Load Balancer in us-west-1. Configure Amazon Route 53 with a weighted routing policy.
- E. Create alias records in Route 53 that point to the Application Load Balancer.

Answer: B

NEW QUESTION 14

An application hosted on AWS is experiencing performance problems, and the application vendor wants to perform an analysis of the log file to troubleshoot further. The log file is stored on Amazon S3 and is 10 GB in size. The application owner will make the log file available to the vendor for a limited time.

What is the MOST secure way to do this?

- A. Enable public read on the S3 object and provide the link to the vendor.
- B. Upload the file to Amazon WorkDocs and share the public link with the vendor.
- C. Generate a presigned URL and have the vendor download the log file before it expires.
- D. Create an IAM user for the vendor to provide access to the S3 bucket and the applicatio
- E. Enforce multifactor authentication.

Answer: C

NEW QUESTION 19

A company's legacy application is currently relying on a single-instance Amazon RDS MySQL database without encryption Due to new compliance requirements, all existing and new data in this database must be encrypted
How should this be accomplished?

- A. Create an Amazon S3 bucket with server-side encryption enabled Move all the data to Amazon S3 Delete the RDS instance
- B. Enable RDS Multi-AZ mode with encryption at rest enabled Perform a failover to the standby instance to delete the original instance
- C. Take a snapshot of the RDS instance Create an encrypted copy of the snapshot Restore the RDS instance from the encrypted snapshot
- D. Create an RDS read replica with encryption at rest enabled Promote the read replica to master and switch the application over to the new master Delete the old RDS instance.

Answer: C

NEW QUESTION 22

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 25

A Solutions Architect must design a web application that will be hosted on AWS, allowing users to purchase access to premium, shared content that is stored in an S3 bucket. Upon payment, content will be available for download for 14 days before the user is denied access
Which of the following would be the LEAST complicated implementation?

- A. Use an Amazon CloudFront distribution with an origin access identity (OAI) Configure the distribution with an Amazon S3 origin to provide access to the file through signed URL's Design a Lambda function to remove data that is older than 14 days.
- B. Use an S3 bucket and provide direct access to the tile Design the application to track purchases in a DynamoDH tableConfigure a Lambda function to remove data that is older than 14 days based on a query to Amazon DynamoDB
- C. Use an Amazon CloudFront distribution with an OAI Configure the distribution with an Amazon S3 origin to provide access to the file through signed URLs Design the application to sot an expiration of 14 days for the URL
- D. Use an Amazon CloudFront distribution with an OAI Configure the distribution with an Amazon S3 origin to provide access to the file through signed URLs Design the application to set an expiration of 60 minutes for the URL and recreate the URL as necessary

Answer: C

NEW QUESTION 29

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 34

A company hosts its product information webpages on AWS. The existing solution uses multiple Amazon C2 instances behind an Application Load Balancer in an Auto Scaling group. The website also uses a custom DNS name and communicates with HTTPS only using a dedicated SSL certificate. The company is planning a new product launch and wants to be sure that users from around the world have the best possible experience on the new website.
What should a solutions architect do to meet these requirements?

- A. Redesign the application to use Amazon CloudFront.
- B. Redesign the application to use AWS Elastic Beanstalk.
- C. Redesign the application to use a Network Load Balancer.
- D. Redesign the application to use Amazon S3 static website hosting.

Answer: A

NEW QUESTION 39

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 42

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 43

A web application is deployed in the AWS Cloud. It consists of a two-tier architecture that includes a web layer and a database layer. The web server is vulnerable to cross-site scripting (XSS) attacks.

What should a solutions architect do to remediate the vulnerability?

- A. Create a Classic Load Balancer. Put the web layer behind the load balancer and enable AWS WAF.
- B. Create a Network Load Balancer. Put the web layer behind the load balancer and enable AWS WAF.
- C. Create an Application Load Balancer. Put the web layer behind the load balancer and enable AWS WAF.
- D. Create an Application Load Balancer. Put the web layer behind the load balancer and use AWS Shield Standard.

Answer: C

NEW QUESTION 45

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 48

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 architect 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 52

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 during working 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 capacity.

- B. Refactor the application to use DynamoDB for reports.
- C. Create the database on a compute optimized Amazon EC2 instance.
- 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 cluster.
- H. Configure the application to use the backup instance of the cluster as an endpoint for the reports.

Answer: B

NEW QUESTION 57

A company is performing an AWS Well-Architected Framework review of an existing workload deployed on AWS. The review identified a public-facing website running on the same Amazon EC2 instance as a Microsoft Active Directory domain controller that was installed recently to support other AWS services. A solutions architect needs to recommend a new design that would improve the security of the architecture and minimize the administrative demand on IT staff. What should the solutions architect recommend?

- A. Use AWS Directory Service to create a managed Active Directory.
- B. Uninstall Active Directory on the current EC2 instance.
- C. Create another EC2 instance in the same subnet and reinstall Active Directory on it.
- D. Uninstall Active Directory.
- E. Use AWS Directory Service to create an Active Directory connection.
- F. Proxy Active Directory requests to the Active domain controller running on the current EC2 instance.
- G. Enable AWS Single Sign-On (AWS SSO) with Security Assertion Markup Language (SAML) 2.0 federation with the current Active Directory controller.
- H. Modify the EC2 instance's security group to deny public access to Active Directory.

Answer: C

NEW QUESTION 59

A company currently operates a web application backed by an Amazon RDS MySQL database. It has automated backups that are run daily and are not encrypted. A security audit requires future backups to be encrypted and the unencrypted backups to be destroyed. The company will make at least one encrypted backup before destroying the old backups. What should be done to enable encryption for future backups?

- A. Enable default encryption for the Amazon S3 bucket where backups are stored.
- B. Modify the backup section of the database configuration to toggle the Enable encryption check box.
- C. Create a snapshot of the database. Copy it to an encrypted snapshot. Restore the database from the encrypted snapshot.
- D. Enable an encrypted read replica on RDS for MySQL. Promote the encrypted read replica to primary. Remove the original database instance.

Answer: C

NEW QUESTION 62

A company is hosting a web application on AWS using a single Amazon EC2 instance that stores user-uploaded documents in an Amazon EBS volume. For better scalability and availability, the company duplicated the architecture and created a second EC2 instance and EBS volume in another Availability Zone, placing both behind an Application Load Balancer. After completing this change, users reported that each time they refreshed the website, they could see one subset of their documents or the other but never all of the documents at the same time. What should a solutions architect propose to ensure users see all of their documents at once?

- A. Copy the data so both EBS volumes contain all the documents.
- B. Configure the Application Load Balancer to direct a user to the server with the documents.
- C. Copy the data from both EBS volumes to Amazon EFS. Modify the application to save new documents to Amazon EFS.
- D. Configure the Application Load Balancer to send the request to both servers. Return each document from the correct server.

Answer: C

NEW QUESTION 65

A company runs an application on a group of Amazon Linux EC2 instances. The application writes log files using standard API calls. For compliance reasons, all log files must be retained indefinitely and will be analyzed by a reporting tool that must access all files concurrently. Which storage service should a solutions architect use to provide the MOST cost-effective solution?

- A. Amazon EBS
- B. Amazon EFS
- C. Amazon EC2 instance store
- D. Amazon S3

Answer: D

NEW QUESTION 69

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 74

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 78

A company built a food ordering application that captures user data and stores it for future analysis. The application's static front end is deployed on an Amazon EC2 instance. The front-end application sends the requests to the backend application running on separate EC2 instance. The backend application then stores the data in Amazon RDS.

What should a solutions architect do to decouple the architecture and make it scalable?

- A. Use Amazon S3 to serve the front-end application which sends requests to Amazon EC2 to execute the backend application. The backend application will process and store the data in Amazon RDS.
- B. Use Amazon S3 to serve the front-end application and write requests to an Amazon Simple Notification Service (Amazon SNS) topic. Subscribe Amazon EC2 instances to the HTTP/HTTPS endpoint of the topic and process and store the data in Amazon RDS.
- C. Use an EC2 instance to serve the front end and write requests to an Amazon SQS queue. Place the backend instance in an Auto Scaling group and scale based on the queue depth to process and store the data in Amazon RDS.
- D. Use Amazon S3 to serve the static front-end application and send requests to Amazon API Gateway which writes the requests to an Amazon SQS queue. Place the backend instances in an Auto Scaling group and scale based on the queue depth to process and store the data in Amazon RDS.

Answer: D

NEW QUESTION 82

A company runs an internal browser-based application. The application runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones. The Auto Scaling group scales up to 20 instances during work hours, but scales down to 2 instances overnight. Staff are complaining that the application is very slow when the day begins, although it runs well by mid-morning.

How should the scaling be changed to address the staff complaints and keep costs to a minimum?

- A. Implement a scheduled action that sets the desired capacity to 20 shortly before the office opens.
- B. Implement a step scaling action triggered at a lower CPU threshold, and decrease the cooldown period.
- C. Implement a target tracking action triggered at a lower CPU threshold and decrease the cooldown period.
- D. Implement a scheduled action that sets the minimum and maximum capacity to 20 shortly before the office opens.

Answer: B

NEW QUESTION 85

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