Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)

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NEW QUESTION 1
A company's application runs on Amazon EC2 instances behind an Application Load Balancer (ALB) The instances run in an Amazon EC2 Auto Scaling group across multiple Availability Zones On the first day of every month at midnight the application becomes much slower when the month-end financial calculation batch executes This causes the CPU utilization of the EC2 instances to immediately peak to 100%. which disrupts the application
What should a solutions architect recommend to ensure the application is able to handle the workload and avoid downtime?

A. Configure an Amazon CloudFront distribution in front of the ALB
B. Configure an EC2 Auto Scaling simple scaling policy based on CPU utilization
C. Configure an EC2 Auto Scaling scheduled scaling policy based on the monthly schedule.
D. Configure Amazon ElastiCache to remove some of the workload from the EC2 instances

Answer: C

NEW QUESTION 2
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 3
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 4
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 5
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

Answer: B

NEW QUESTION 6
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 7
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 8
A company's web application uses an Amazon RDS PostgreSQL DB instance to store its application data. During the financial closing period at the start of every month. Accountants run large queries that impact the database's performance due to high usage. The company wants to minimize the impact that the reporting activity has on the web application.
What should a solutions architect do to reduce the impact on the database with the LEAST amount of effort?

A. Create a read replica and direct reporting traffic to the replica.
B. Create a Multi-AZ database and direct reporting traffic to the standby.
C. Create a cross-Region read replica and direct reporting traffic to the replica.
D. Create an Amazon Redshift database and direct reporting traffic to the Amazon Redshift database.

Answer: B

NEW QUESTION 9
A data science team requires storage for nightly log processing The size and number of logs is unknown and will persist for 24 hours only What is the MOST cost-effective solution?

A. Amazon S3 Glacier
B. Amazon S3 Standard
C. Amazon S3 intelligent-Tiering
D. Amazon S3 One Zone-Infrequent Access {S3 One Zone-IA)

Answer: B

NEW QUESTION 10
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 10
A solutions architect has created a new AWS account and must secure AWS account root user access Which combination of actions will accomplish this? (Select TWO.)

A. Ensure the root user uses a strong password
B. Enable multi-factor authentication to the root user
C. Store root user access keys in an encrypted Amazon S3 bucket
D. Add the root user to a group containing administrative permissions.
E. Apply the required permissions to the root user with an inline policy document

Answer: AB

Explanation:
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_root-user.html

NEW QUESTION 14
A solutions architect is designing the cloud architecture for a new application being deployed on AWS The process should run in parallel while adding and removing application nodes as needed based on the number of jobs to be processed The processor application is stateless The solutions architect must ensure that the application is loosely coupled and the job items are durably stored
Which design should the solutions architect use?

A. Create an Amazon SNS topic to send the jobs that need to be processed Create an Amazon Machine Image (AMI) that consists of the processor application Create a launch configuration that uses the AMI Create an Auto Scaling group using the launch configuration Set the scaling policy for the Auto Scaling group to

add and remove nodes based on CPU usage
B. Create an Amazon SQS queue to hold the jobs that need to be processed Create an Amazon Machine Image (AMI) that consists of the processor application Create a launch configuration that uses the AMI Create an Auto Scaling group using the launch configuration Set the scaling policy for the Auto Scaling group to add and remove nodes based on network usage
C. Create an Amazon SQS queue to hold the jobs that needs to be processed Create an Amazon Machine Image (AMI) that consists of the processor application Create a launch template that uses the AMI Create an Auto Scaling group using the launch template Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of items in the SQS queue
D. Create an Amazon SNS topic to send the jobs that need to be processed Create an Amazon Machine Image (AMI) that consists of the processor application Create a launch template that uses the AMI Create an Auto Scaling group using the launch template Set the scaling policy for the Auto Scaling group to add and remove nodes based on the number of messages published to the SNS topic.

Answer: C

NEW QUESTION 19
A company's application is running on Amazon EC2 instances m a single Region in the event of a disaster a solutions architect needs to ensure that the resources can also be deployed to a second Region
Which combination of actions should the solutions architect take to accomplish this-? (Select TWO)

A. Detach a volume on an EC2 instance and copy it to Amazon S3
B. Launch a new EC2 instance from an Amazon Machine image (AMI) in a new Region
C. Launch a new EC2 instance in a new Region and copy a volume from Amazon S3 to the new instance
D. Copy an Amazon Machine Image (AMI) of an EC2 instance and specify a different Region for the destination
E. Copy an Amazon Elastic Block Store (Amazon EBS) volume from Amazon S3 and launch an EC2 instance in the destination Region using that EBS volume

Answer: BD

NEW QUESTION 23
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 25
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
Organizers for a global event want to put daily reports online as static HTML pages The pages are expected to generate millions of views from users around the world The files are stored in an Amazon S3 bucket A solutions architect has been asked to design an efficient and effective solution
Which action should the solutions architect take to accomplish this?

A. Generate presigned URLs for the files
B. Use cross-Region replication to all Regions
C. Use the geoproximity feature of Amazon Route 53
D. Use Amazon CloudFront with the S3 bucket as its origin

Answer: D

NEW QUESTION 32
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 36
A solutions architect is deploying a distributed database on multiple Amazon EC2 instances The database stores all data on multiple instances so it can withstand

the loss of an instance The database requires block storage with latency and throughput to support several million transactions per second per server
Which storage solution should the solutions architect use?

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

Answer: B

NEW QUESTION 39
A solutions architect is implementing a document review application using an Amazon S3 bucket for storage
The solution must prevent accidental deletion of the documents and ensure that all versions of the documents are available Users must be able to download, modify, and upload documents
Which combination of actions should be taken to meet these requirements'? (Select TWO)

A. Enable a read-only bucket ACL
B. Enable versioning on the bucket
C. Attach an 1AM policy to the bucket
D. Enable MFA Delete on the bucket
E. Encrypt the bucket using AWS KMS

Answer: BD

NEW QUESTION 42
A product team is creating a new application that will store a large amount of data The data will be analyzed hourly and modified by multiple Amazon EC2 Linux instances The application team believes the amount of space needed will continue to grow for the next 6 months
Which set of actions should a solutions architect take to support these needs'?

A. Store the data in an Amazon EBS volume Mount the EBS volume on the application instances
B. Store the data in an Amazon EFS file system Mount the file system on the application instances
C. Store the data in Amazon S3 Glacier Update the vault policy to allow access to the application instances
D. Store the data in Amazon S3 Standard-Infrequent Access (S3 Standard-IA) Update the bucket policy to allow access to the application instances

Answer: B

NEW QUESTION 44
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 45
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