

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 company's application is running on Amazon EC2 instances within an Auto Scaling group behind an Elastic Load Balancer. Based on the application's history, the company anticipates a spike in traffic during a holiday each year. A solutions architect must design a strategy to ensure that the Auto Scaling group proactively increases capacity to minimize any performance impact on application users. Which solution will meet these requirements?

- A. Create an Amazon CloudWatch alarm to scale up the EC2 instances when CPU utilization exceeds 90%.
- B. Create a recurring scheduled action to scale up the Auto Scaling group before the expected period of peak demand.
- C. Increase the minimum and maximum number of EC2 instances in the Auto Scaling group during the peak demand period.
- D. Configure an Amazon Simple Notification Service (Amazon SNS) notification to send alerts when there are auto scaling EC2_INSTANCE_LAUNCH events.

Answer: B

NEW QUESTION 3

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 4

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 5

A solutions architect is designing a solution where users will be directed to a backup static error page if 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 6

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 ne
- 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 7

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 8

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 9

A company is planning to use Amazon S3 to store images uploaded by its users The images must be encrypted at rest in Amazon S3 The company does not want to spend time managing and rotating the keys, but it does want to control who can access those keys

What should a solutions architect use to accomplish this?

- A. Server-Side Encryption with keys stored in an S3 bucket
- B. Server-Side Encryption with Customer-Provided Keys (SSE-C)
- C. Server-Side Encryption with Amazon S3-Managed Keys (SSE-S3)
- D. Server-Side Encryption with AWS KMS-Managed Keys (SSE-KMS)

Answer: C

NEW QUESTION 10

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 10

A security team wants to limit access to specific services or actions in all of the team's AWS accounts. All accounts belong to a large organization in AWS Organizations The solution must be scalable and there must be a single point where permissions can be maintained.

What should a solutions architect do to accomplish this?

- A. Create an ACL to provide access to the services or actions.
- B. Create a security group to allow accounts and attach it to user groups
- C. Create cross-account roles in each account to deny access to the services or actions.
- D. Create a service control policy in the root organizational unit to deny access to the services or actions

Answer: D

NEW QUESTION 11

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 15

A solutions architect is designing a high performance computing (HPC) workload on Amazon EC2 The EC2 instances need to communicate to each other frequently and require network performance with low latency and high throughput
Which EC2 configuration meets these requirements'?

- A. Launch the EC2 instances in a cluster placement group in one Availability Zone
- B. Launch the EC2 instances in a spread placement group in one Availability Zone
- C. Launch the EC2 instances in an Auto Scaling group in two Regions and peer the VPCs
- D. Launch the EC2 instances in an Auto Scaling group spanning multiple Availability Zones

Answer: A

NEW QUESTION 18

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 20

An Amazon EC2 administrator created the following policy associated with an IAM group containing several users.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "ec2:TerminateInstances",
      "Resource": "*",
      "Condition": {
        "IpAddress": {
          "aws:SourceIp": "10.100.100.0/24"
        }
      }
    },
    {
      "Effect": "Deny",
      "Action": "ec2:*",
      "Resource": "*",
      "Condition": {
        "StringNotEquals": {
          "ec2:Region": "us-east-1"
        }
      }
    }
  ]
}
```

What is the effect of this policy?

- A. Users can terminate an EC2 instance in any AWS Region except us-east-1.
- B. Users can terminate an EC2 instance with the IP address 10.100. 1001 in the us-east-1 Region
- C. Users can terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100.100.254
- D. Users cannot terminate an EC2 instance in the us-east-1 Region when the user's source IP is 10.100. 100. 254

Answer: C

NEW QUESTION 21

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 23

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 28

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 33

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 37

A marketing company is storing CSV files in an Amazon S3 bucket for statistical analysis. An application on an Amazon EC2 instance needs permission to efficiently process the CSV data stored in the S3 bucket. Which action will MOST securely grant the EC2 instance access to the S3 bucket?

- A. Attach a resource-based policy to the S3 bucket.
- B. Create an IAM user for the application with specific permissions to the S3 bucket.
- C. Associate an IAM role with least privilege permissions to the EC2 instance profile.
- D. Store AWS credentials directly on the EC2 instance for applications on the instance to use for API calls.

Answer: C

NEW QUESTION 42

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 43

A company runs an application in a branch office within a small data closet with no virtualized compute resources. The application data is stored on an NFS volume. Compliance standards require a daily offsite backup of the NFS volume.

Which solution meet these requirements?

- A. Install an AWS Storage Gateway file gateway on premises to replicate the data to Amazon S3.
- B. Install an AWS Storage Gateway file gateway hardware appliance on premises to replicate the data to Amazon S3.
- C. Install an AWS Storage Gateway volume gateway with stored volumes on premises to replicate the data to Amazon S3.
- D. Install an AWS Storage Gateway volume gateway with cached volumes on premises to replicate the data to Amazon S3.

Answer: C

NEW QUESTION 46

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 install 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 Director
- B. Uninstall Active Directory on the current EC2 instance.
- C. Create another EC2 instance in the same subnet and reinstall Active Directory on i
- D. Uninstall Active Directory.
- E. Use AWS Directory Service to create an Active Directory connecto
- 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 controlle
- H. Modify the EC2 instance's security group to deny public access to Active Directory.

Answer: C

NEW QUESTION 47

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 51

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 56

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 EPS
- D. Configure the Application Load Balancer to send the request to both servers Return each document from the correct server

Answer: C

NEW QUESTION 59

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 61

A solutions architect needs to design a managed storage solution for a company's application that includes high-performance machine learning. This application runs on AWS Fargate, and the connected storage needs to have concurrent access to files and deliver high performance. Which storage option should the solutions architect recommend?

- A. Create an Amazon S3 bucket for the application and establish an IAM role for Fargate to communicate with Amazon S3.
- B. Create an Amazon FSx for Lustre file share and establish an IAM role that allows Fargate to communicate with FSx for Lustre.
- C. Create an Amazon Elastic File System (Amazon EFS) file share and establish an IAM role that allows Fargate to communicate with Amazon EFS.
- D. Create an Amazon Elastic Block Store (Amazon EBS) volume for the application and establish an IAM role that allows Fargate to communicate with Amazon EBS.

Answer: B

NEW QUESTION 64

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 68

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 73

A company wants to migrate a high performance computing (HPC) application and data from on-premises to the AWS Cloud. The company uses tiered storage on premises with hot high-performance parallel storage to support the application during periodic runs of the application and more economical cold storage to hold the data when the application is not actively running. Which combination of solutions should a solutions architect recommend to support the storage needs of the application? (Select TWO)

- A. Amazon S3 for cold data storage
- B. Amazon EFS for cold data storage
- C. Amazon S3 for high-performance parallel storage
- D. Amazon FSx for Lustre for high-performance parallel storage
- E. Amazon FSx for Windows for high-performance parallel storage

Answer: AD

NEW QUESTION 74

A bicycle sharing company is developing a multi-tier architecture to track the location of its bicycles during peak operating hours. The company wants to use these data points in its existing analytics platform. A solutions architect must determine the most viable multi-tier option to support this architecture. The data points must be accessible from the REST API. Which action meets these requirements for storing and retrieving location data?

- A. Use Amazon Athena with Amazon S3.
- B. Use Amazon API Gateway with AWS Lambda.
- C. Use Amazon QuickSight with Amazon Redshift.

D. Use Amazon API Gateway with Amazon Kinesis Data Analytics

Answer: D

NEW QUESTION 78

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