

# Amazon-Web-Services

## Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)



**NEW QUESTION 1**

A solutions architect is designing a system to analyze the performance of financial markets while the markets are closed. The system will run a series of compute-intensive jobs for 4 hours every night. The time to complete the compute jobs is expected to remain constant, and jobs cannot be interrupted once started. Once completed, the system is expected to run for a minimum of 1 year.

Which type of Amazon EC2 instances should be used to reduce the cost of the system?

- A. Spot Instances
- B. On-Demand Instances
- C. Standard Reserved Instances
- D. Scheduled Reserved Instances

**Answer: D**

**NEW QUESTION 2**

A static website is within an Amazon S3 bucket. A solutions architect needs to ensure that the website is available in multiple Availability Zones. 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 solutions architect is designing a two-tier web application. The application consists of a public-facing web tier hosted on Amazon EC2 in public subnets. The database tier consists of Microsoft SQL Server running on Amazon EC2 in a private subnet. Security is a high priority for the company. How should security groups be configured in this situation? (Select TWO.)

- A. Configure the security group for the web tier to allow inbound traffic on port 443 from 0.0.0.0/0.
- B. Configure the security group for the web tier to allow outbound traffic on port 443 to 0.0.0.0/0.
- C. Configure the security group for the database tier to allow inbound traffic on port 1433 from the security group for the web tier.
- D. Configure the security group for the database tier to allow outbound traffic on ports 443 and 1433 to the security group for the web tier.
- E. Configure the security group for the database tier to allow inbound traffic on ports 443 and 1433 from the security group for the web tier.

**Answer: AC**

**NEW QUESTION 4**

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 5**

A gaming company has multiple Amazon EC2 instances in a single Availability Zone for its multiplayer game that communicates with users on Layer 4. The chief technology officer (CTO) wants to make the architecture highly available and cost-effective.

What should a solutions architect do to meet these requirements? (Select TWO.)

- A. Increase the number of EC2 instances.
- B. Decrease the number of EC2 instances.
- C. Configure a Network Load Balancer in front of the EC2 instances.
- D. Configure an Application Load Balancer in front of the EC2 instances.
- E. Configure an Auto Scaling group to add or remove instances in multiple Availability Zones automatically.

**Answer: CE**

**NEW QUESTION 6**

A company has a multi-tier application that runs six front-end web servers in an Amazon EC2 Auto Scaling group in a single Availability Zone behind an Application Load Balancer (ALB). A solutions architect needs to modify the infrastructure to be highly available without modifying the application.

Which architecture should the solutions architect choose that provides high availability?

- A. Create an Auto Scaling group that uses three instances across each of two Regions.
- B. Modify the Auto Scaling group to use three instances across each of two Availability Zones.
- C. Create an Auto Scaling template that can be used to quickly create more instances in another Region.
- D. Change the ALB in front of the Amazon EC2 instances in a round-robin configuration to balance traffic to the web tier.

**Answer: B**

**NEW QUESTION 7**

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 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**

An application running on AWS uses an Amazon Aurora Multi-AZ deployment for its database. When evaluating performance metrics, a solutions architect discovered that the database reads are causing high I/O and adding latency to the write requests against the database. What should the solutions architect do to separate the read requests from the write requests?

- A. Enable read-through caching on the Amazon Aurora database.
- B. Update the application to read from the Multi-AZ standby instance.
- C. Create a read replica and modify the application to use the appropriate endpoint.
- D. Create a second Amazon Aurora database and link it to the primary database as a read replica.

**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 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 13**

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 in 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 17**

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 20

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](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_root-user.html)

#### NEW QUESTION 24

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 DynamoDB table Configure 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 set 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 company has a legacy application that processes data in two parts The second part of the process takes longer than the first, so the company has decided to rewrite the application as two microservices running on Amazon ECS that can scale independently.

How should a solutions architect integrate the microservices?

- A. Implement code in microservice 1 to send data to an Amazon S3 bucket
- B. Use S3 event notifications to invoke microservice 2.
- C. Implement code in microservice 1 to publish data to an Amazon SNS topic Implement code in microservice 2 to subscribe to this topic
- D. Implement code in microservice 1 to send data to Amazon Kinesis Data Firehose
- E. Implement code in microservice 2 to read from Kinesis Data Firehose.
- F. Implement code in microservice 1 to send data to an Amazon SQS queue Implement code in microservice 2 to process messages from the queue

**Answer:** C

#### NEW QUESTION 33

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 36

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 37

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 41

A company has a three-tier image-sharing application it uses an Amazon EC2 instance for the front-end layer, another for the backend tier, and a third for the MySQL database A solutions architect has been tasked with designing a solution that is highly available, and requires the least amount of changes to the application

Which solution meets these requirements'?

- A. Use Amazon S3 to host the front-end layer and AWS Lambda functions for the backend layer Move the database to an Amazon DynamoDB table and use Amazon S3 to store and serve users' images
- B. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layers Move the database to an Amazon RDS instance with multiple read replicas to store and serve users' images.
- C. Use Amazon S3 to host the front-end layer and a fleet of Amazon EC2 instances in an Auto Scaling group for the backend layer Move the database to a memory optimized instance type to store and serve users' images
- D. Use load-balanced Multi-AZ AWS Elastic Beanstalk environments for the front-end and backend layers Move the database to an Amazon RDS instance with a Multi-AZ deployment Use Amazon S3 to store and serve users' images

**Answer:** D

#### NEW QUESTION 43

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 47

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 52

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 53

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 55

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 60

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 63

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 65

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 66

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](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_boundaries.html)

#### NEW QUESTION 69

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