



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 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 3

A static website is stored within an Amazon S3 bucket. A solutions architect needs to ensure high availability. 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 4

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 5

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 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 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 8

A company has on-premises servers running a relational database. The current database serves high read traffic for users in different locations. The company wants to migrate to AWS with the least amount of effort. The database solution should support disaster recovery and not affect the company's current traffic flow. Which solution meets these requirements?

- A. Use a database in Amazon RDS with Multi-AZ and at least one read replica
- B. Use a database in Amazon RDS with Multi-AZ and at least one standby replica
- C. Use databases hosted on multiple Amazon EC2 instances in different AWS Regions
- D. Use databases hosted on Amazon EC2 instances behind an Application Load Balancer in different Availability Zones

Answer: A

NEW QUESTION 9

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 10

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 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 15

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 20

A company's production application runs online transaction processing (OLTP) transactions on an Amazon RDS MySQL DB instance. The company is launching a new reporting tool that will access the same data. The reporting tool must be highly available and not impact the performance of the production application. How can this be achieved?

- A. Create hourly snapshots of the production RDS DB instance
- B. Create a Multi-AZ RDS Read Replica of the production RDS DB instance
- C. Create multiple RDS Read Replicas of the production RDS DB instance Place the Read Replicas in an Auto Scaling group
- D. Create a Single-AZ RDS Read Replica of the production RDS DB instance Create a second Single-AZ RDS Read Replica from the replica

Answer: B

NEW QUESTION 24

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 28

A company's website is used to sell products to the public The site runs on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB) There is also an Amazon CloudFront distribution and AWS WAF is being used to protect against SQL injection attacks The ALB is the origin for the CloudFront distribution A recent review of security logs revealed an external malicious IP that needs to be blocked from accessing the website What should a solutions architect do to protect the application"?

- A. Modify the network ACL on the CloudFront distribution to add a deny rule for the malicious IP address
- B. Modify the configuration of AWS WAF to add an IP match condition to block the malicious IP address
- C. Modify the network ACL for the EC2 instances in the target groups behind the ALB to deny the malicious IP address
- D. Modify the security groups for the EC2 instances in the target groups behind the ALB to deny the malicious IP address

Answer: B

NEW QUESTION 31

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 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 39

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 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 46

A company has a two-tier application architecture that runs in public and private subnets Amazon EC2 instances running the web application are in the public subnet and a database runs on the private subnet The web application instances and the database are running in a single Availability Zone (AZ). Which combination of steps should a solutions architect take to provide high availability for this architecture? (Select TWO.)

- A. Create new public and private subnets in the same AZ for high availability
- B. Create an Amazon EC2 Auto Scaling group and Application Load Balancer spanning multiple AZs
- C. Add the existing web application instances to an Auto Scaling group behind an Application Load Balancer
- D. Create new public and private subnets in a new AZ Create a database using Amazon EC2 in one AZ
- E. Create new public and private subnets in the same VPC each in a new AZ Migrate the database to an Amazon RDS multi-AZ deployment

Answer: BE

NEW QUESTION 47

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 52

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 54

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 57

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

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

Answer: B

NEW QUESTION 62

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 65

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 69

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 74

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 78

A company is managing health records on-premises The company must keep these records indefinitely, disable any modifications to the records once they are stored, and granularly audit access at all levels. The chief technology officer (CTO) is concerned because there are already millions of records not being used by any application, and the current infrastructure is running out of space The CTO has requested a solutions architect design a solution to move existing data and support future records
Which services can the solutions architect recommend to meet these requirements'?

- A. Use AWS DataSync to move existing data to AW
- B. Use Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with data events.
- C. Use AWS Storage Gateway to move existing data to AWS Use Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with management events.
- D. Use AWS DataSync to move existing data to AWS Use Amazon S3 to store existing and new data Enable Amazon S3 object lock and enable AWS CloudTrail with management events.
- E. Use AWS Storage Gateway to move existing data to AWS Use Amazon Elastic Block Store (Amazon EBS) to store existing and new data Enable Amazon S3 object lock and enable Amazon S3 server access logging

Answer: B

NEW QUESTION 79

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 81

A solutions architect needs to ensure that API calls to Amazon DynamoDB from Amazon EC2 instances in a VPC do not traverse the internet. What should the solutions architect do to accomplish this? (Select TWO)

- A. Create a route table entry for the endpoint
- B. Create a gateway endpoint for DynamoDB
- C. Create a new DynamoDB table that uses the endpoint
- D. Create an ENI for the endpoint in each of the subnets of the VPC
- E. Create a security group entry in the default security group to provide access

Answer: AB

NEW QUESTION 85

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