Amazon-Web-Services

Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)

NEW QUESTION 1
A company has deployed an API in a VPC behind an internet-facing Application Load Balancer (ALB) An application that consumes the API as a client is deployed in a second account in private subnets behind a NAT gateway. When requests to the client application increase, the NAT gateway costs are higher than expected. A solutions architect has configured the ALB to be internal.
Which combination of architectural changes will reduce the NAT gateway costs'? (Select TWO)

A. Configure a VPC peering connection between the two VPC
B. Access the API using the private address
C. Configure an AWS Direct Connect connection between the two VPC
D. Access the API using the private address.
E. Configure a ClassicLink connection for the API into the client VPC Access the API using the ClassicLink address.
F. Configure a PrivateLink connection for the API into the client VP
G. Access the API using the PrivateLink address.
H. Configure an AWS Resource Access Manager connection between the two accounts Access the API using the private address

Answer: DE

NEW QUESTION 2
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 from 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 3
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 4
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 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 solutions architect is optimizing a website for an upcoming musical event Videos of the performances will be streamed in real time and then will be available on demand The event is expected to attract a global online audience

Which service will improve the performance of both the real-time and on-demand streaming?

A. Amazon CloudFront
B. AWS Global Accelerator
C. Amazon Route 53
D. Amazon S3 Transfer Acceleration

Answer: A

NEW QUESTION 7

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 8

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 Zon
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 9

An Amazon EC2 administrator created the following policy associated with an 1AM 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 10
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
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 14
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 19
A solutions architect is designing a new service behind Amazon API Gateway The request patterns for the service will be unpredictable and can change suddenly from 0 requests to over 500 per second The total size of the data that needs to be persisted in a backend database is currently less than 1 GB with unpredictable future growth Data can be queried using simple key-value requests
Which combination of AWS services would meet these requirements'? (Select TWO)

A. AWS Fargate
B. AWS Lambda
C. Amazon DynamoDB
D. Amazon EC2 Auto Scaling
E. MySQL-compatible Amazon Aurora

Answer: BC

NEW QUESTION 21
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 24

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 29

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 1AM role for Fargate to communicate with Amazon S3
B. Create an Amazon FSx for Lustre file share and establish an 1AM role that allows Fargate to communicate with FSx for Lustre.
C. Create an Amazon Elastic File System (Amazon EFS) file share and establish an 1AM 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 1AM role that allows Fargate to communicate with Amazon EBS

Answer: B

NEW QUESTION 34

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 35

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