



# Amazon-Web-Services

## Exam Questions SAA-C02

AWS Certified Solutions Architect - Associate (SAA-C02)

#### 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 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 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 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 7

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 new 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.
- 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 8

A manufacturing company wants to implement predictive maintenance on its machinery equipment. The company will install thousands of IoT sensors that will send data to AWS in real time. A solutions architect is tasked with implementing a solution that will receive events in an ordered manner for each machinery asset and ensure that data is saved for further processing at a later time. Which solution would be MOST efficient?

- A. Use Amazon Kinesis Data Streams for real-time events with a partition for each equipment asset. Use Amazon Kinesis Data Firehose to save data to Amazon S3.
- B. Use Amazon Kinesis Data Streams for real-time events with a shard for each equipment asset. Use Amazon Kinesis Data Firehose to save data to Amazon EBS.
- C. Use an Amazon SQS FIFO queue for real-time events with one queue for each equipment asset. Trigger an AWS Lambda function for the SQS queue to save data to Amazon EFS.
- D. Use an Amazon SQS standard queue for real-time events with one queue for each equipment asset. Trigger an AWS Lambda function from the SQS queue to save data to Amazon S3.

**Answer:** A

#### NEW QUESTION 9

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 10

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 10

A company's website is using an Amazon RDS MySQL Multi-AZ DB instance for its transactional data storage. There are other internal systems that query this DB instance to fetch data for internal batch processing. The RDS DB instance slows down significantly the internal systems' fetch data. This impacts the website's read and write performance, and the users experience slow response times. Which solution will improve the website's performance?

- A. Use an RDS PostgreSQL DB instance instead of a MySQL database.
- B. Use Amazon ElastiCache to cache the query responses for the website.
- C. Add an additional Availability Zone to the current RDS MySQL Multi-AZ DB instance.
- D. Add a read replica to the RDS DB instance and configure the internal systems to query the read replica.

**Answer:** D

#### NEW QUESTION 15

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 20

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 25

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 26

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 29

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 30

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 32

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 37

A company has application running on Amazon EC2 instances in a VPC. One of the applications needs to call an Amazon S3 API to store and read objects. The company's security policies restrict any internet-bound traffic from the applications. Which action will fulfill these requirements and maintain security?

- A. Configure an S3 interface endpoint.
- B. Configure an S3 gateway endpoint.
- C. Create an S3 bucket in a private subnet.
- D. Create an S3 bucket in the same Region as the EC2 instance.

**Answer: C**

#### NEW QUESTION 38

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 42

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 44

A company must generate sales reports at the beginning of every month. The reporting process launches 20 Amazon EC2 instances on the first of the month. The process runs for 7 days and cannot be interrupted. The company wants to minimize costs. Which pricing model should the company choose?



- A. Reserved Instances
- B. Spot Block Instances
- C. On-Demand Instances
- D. Scheduled Reserved Instances D18912E1457D5D1DDCBD40AB3BF70D5D

**Answer:** C

#### NEW QUESTION 46

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 50

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 URLs. Design a Lambda function to remove data that is older than 14 days.
- B. Use an S3 bucket and provide direct access to the file. 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 53

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 55

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 58

A company hosts its product information webpages on AWS. The existing solution uses multiple Amazon EC2 instances behind an Application Load Balancer in an Auto Scaling group. The website also uses a custom DNS name and communicates with HTTPS only using a dedicated SSL certificate. The company is planning a new product launch and wants to be sure that users from around the world have the best possible experience on the new website. What should a solutions architect do to meet these requirements?

- A. Redesign the application to use Amazon CloudFront.
- B. Redesign the application to use AWS Elastic Beanstalk.
- C. Redesign the application to use a Network Load Balancer.
- D. Redesign the application to use Amazon S3 static website hosting.

**Answer:** A

#### NEW QUESTION 63

A company's application is running on Amazon EC2 instances in 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 64

A company captures clickstream data from multiple websites and analyzes it using batch processing. The data is loaded nightly into Amazon Redshift and is consumed by business analysts. The company wants to move towards near-real-time data processing for timely insights. The solution should process the streaming data with minimal effort and operational overhead.

Which combination of AWS services are MOST cost-effective for this solution? (Choose two.)

- A. Amazon EC2
- B. AWS Lambda
- C. Amazon Kinesis Data Streams
- D. Amazon Kinesis Data Firehose
- E. Amazon Kinesis Data Analytics

**Answer:** AD

#### NEW QUESTION 67

A financial services company has a web application that serves users in the United States and Europe. The application consists of a database tier and a web server tier. The database tier consists of a MySQL database hosted in us-east-1. Amazon Route 53 geoproximity routing is used to direct traffic to instances in the closest Region. A performance review of the system reveals that European users are not receiving the same level of query performance as those in the United States. Which changes should be made to the database tier to improve performance?

- A. Migrate the database to Amazon RDS for MySQL. Configure Multi-AZ in one of the European Regions.
- B. Migrate the database to Amazon DynamoDB. Use DynamoDB global tables to enable replication to additional Regions.
- C. Deploy MySQL instances in each Region. Deploy an Application Load Balancer in front of MySQL to reduce the load on the primary instance.
- D. Migrate the database to an Amazon Aurora global database in MySQL compatibility mode. Configure read replicas in one of the European Regions.

**Answer:** D

#### NEW QUESTION 70

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 75

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 77

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 80

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 84

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 IAM policy to the bucket
- D. Enable MFA Delete on the bucket
- E. Encrypt the bucket using AWS KMS

**Answer:** BD

#### NEW QUESTION 89

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 93

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 96

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 98

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 101

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 105

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