learning (Al/ML) The datasets are large, formatted files that are stored in an Amazon S3 bucket in the us-east-1 Region. The company hosts a web application that the customers use to purchase access to a given dataset. The web application is deployed on multiple Amazon EC2 instances behind an Application Load Balancer. After a purchase is made customers receive an S3 signed URL that allows access to the files. The customers are distributed across North America and Europe The company wants to reduce the cost that is associated with data transfers and wants to maintain or improve performance. What should a solutions architect do to meet these requirements?

A. Configure S3 Transfer Acceleration on the existing S3 bucket Direct customer requests to the S3 Transfer Acceleration endpoint Continue to use S3 signed URLs for access control
B. Deploy an Amazon CloudFront distribution with the existing S3 bucket as the origin Direct customer requests to the CloudFront URL Switch to CloudFront signed URLs for access control
C. Set up a second S3 bucket in the eu-central-1 Region with S3 Cross-Region Replication between the buckets Direct customer requests to the closest Region Continue to use S3 signed URLs for access control
D. Modify the web application to enable streaming of the datasets to end users. Configure the web application to read the data from the existing S3 bucket Implement access control directly in the application

Correct Answer: B

QUESTION 219
A startup company is using me AWS Cloud to develop a traffic control monitoring system for a large city. The system must be highly available and must provide near-real-time results for residents and city officials even during peak events. Gigabytes of data will come in daily from IoT devices that run at intersections and freeway ramps across the city. The system must process the data sequentially to provide the correct timeline. However results need to show only what has happened in the last 24 hours. Which solution will meet these requirements MOST cost-effectively?

A. Deploy Amazon Kinesis Data Firehose to accept incoming data from the IoT devices and write the data to Amazon S3 Build a web dashboard to display the data from the last 24 hours
B. Deploy an Amazon API Gateway API endpoint and an AWS Lambda function to process incoming data from the IoT devices and store the data in Amazon DynamoDB Build a web dashboard to display the data from the last 24 hours
C. Deploy an Amazon API Gateway API endpoint and an Amazon Simple Notification Service (Amazon SNS) tope to process incoming data from the IoT devices Write the data to Amazon Redshift Build a web dashboard to display the data from the last 24 hours
D. Deploy an Amazon Simple Queue Service (Amazon SOS) FIFO queue and an AWS Lambda function to process incoming data from the IoT devices and store the data in an Amazon RDS DB instance Build a web dashboard to display the data from the last 24 hours

Correct Answer: D

QUESTION 220
A company is planning to migrate a legacy application to AWS. The application currently uses NFS to communicate to an on-premises storage solution to store application data. The application cannot be modified to use any other communication protocols other than NFS for this purpose. Which storage solution should a solutions architect recommend for use after the migration?

A. AWS DataSync

B.   Amazon Elastic Block Store (Amazon EBS)
C.   Amazon Elastic File System (Amazon EFS)
D.   Amazon EMR File System (Amazon EMRFS)

Correct Answer: C

QUESTION 221
A monolithic application was recently migrated to AWS and is now running on a single Amazon EC2 instance. Due to application limitations it is not possible to use automatic scaling to scale out the application. The chief technology officer (CTO) wants an automated solution to restore the EC2 instance in the unlikely event the underlying hardware fails. What would allow foe automatic recovery of the EC2 instance as quickly as possible?

A.   Configure an Amazon CloudWatch alarm that triggers the recovery of the EC2 instance if it becomes impaired
B.   Configure an Amazon CloudWatch alarm to trigger an SNS message that alerts the CTO when the EC2 instance is impaired
C.   Configure AWS CloudTrail to monitor the health of the EC2 instance, and if it becomes impaired trigger instance recovery
D.   Configure an Amazon EventBridge event to trigger an AWS Lambda function once an hour that checks the health of the EC2 instance and triggers instance recovery if the EC2 instance is unhealthy
Correct Answer: A

QUESTION 222
A company has an Amazon S3 bucket that contains mission-critical data. The company wants to ensure this data is protected from accidental deletion. The data should still be accessible, and a user should be able to delete the data internationally. Which combination of steps should a solutions architect take to accomplish this? (Select TWO.)

A.   Enable versioning on the S3 bucket.
B.   Enable MFA Delete on the S3 bucket.
C.   Create a bucket policy on the S3 bucket
D.   Enable default encryption on the S3 bucket.
E.   Create a lifecycle policy for the objects in the S3 bucket.

Correct Answer: AB

QUESTION 223
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

Correct Answer: A

QUESTION 224
A company needs to retain its AWS CloudTrail logs or 3 years. The company is enforcing CloudTrail across a set of AWS accounts by using AWS Organizations from the parent account. The CloudTrail target S3 bucket is configured with S3 Versioning enabled. An S3 Lifecycle policy is in place to delete current objects after 3 years. After the fourth year of use of the S3 bucket, the S3 bucket metrics show that the number of objects has continued to rise. However, the number of new CloudTrail logs that are delivered to the S3 bucket has remained consistent. Which solution will delete objects that are older than 3 years in the MOST cost-effective manner?

A. Configure the organization's centralized CloudTrail trail to expire objects after 3 years.
B. Configure the S3 Lifecycle policy to delete previous versions as well as current versions.
C. Create an AWS Lambda function to enumerate and delete objects from Amazon S3 that are older than 3 years.
D. Configure the parent account as the owner of all objects that are delivered to the S3 bucket.

Correct Answer: B

QUESTION 225
A company has an on-premises application that collects data and stores it to an on-premises NFS server. The company recently set up a 10 Gbps AWS Direct Connect connection. The company is running out of storage capacity on premises. The company needs to migrate the application data from on premises to the AWS Cloud while maintaining low-latency access to the data from the on-premises application. What should a solutions architect do to meet these requirements?

A. Deploy AWS Storage Gateway for the application data and use the file gateway to store the data in Amazon S3 Connect the on-premises application servers to the file gateway using NFS
B. Attach an Amazon Elastic File System (Amazon EFS) file system to the NFS server and copy the application data to the EFS file system. Then connect the on-premises application to Amazon EFS
C. Configure AWS Storage Gateway as a volume gateway Make the application data available to the on-premises application from the NFS server and with Amazon Elastic Block Store {Amazon EBS) snapshots
D. Create an AWS DataSync agent with the NFS server as the source location and an Amazon Elastic File System (Amazon EFS) file system as the destination for application data transfer Connect the on-premises application to the EFS file system

Correct Answer: D

QUESTION 226
A company is using AWS to design a web application that will process insurance quotes. Users will request quotes from the application. Quotes must be separated by quote type, must be responded to within 24 hours, and must not get lost. The solution must maximize operational efficiency and must minimize maintenance. Which solution meets these requirements?

A. Create multiple Amazon Kinesis data streams based on the quote type Configure the web application to send messages to the proper data stream. Configure each backend group of application servers to use the Kinesis Client Library (KCL) to pool messages from its own data stream.
B. Create an AWS Lambda function and an Amazon Simple Notification Service (Amazon SNS) topic for each quote type Subscribe the Lambda function to its associated SNS topic. Configure the

application to publish requests tot quotes to the appropriate SNS topic.

C. Create a single Amazon Simple Notification Service (Amazon SNS) topic Subscribe Amazon Simple Queue Service (Amazon SQS) queues to the SNS topic. Configure SNS message filtering to publish messages to the proper SQS queue based on the quote type. Configure each backend application server to use its own SQS queue.

D. Create multiple Amazon Kinesis Data Firehose delivery streams based on the quote type to deliver data streams to an Amazon Elasucsearch Service (Amazon ES) cluster. Configure the application to send messages to the proper delivery stream. Configure each backend group of application servers to search for the messages from Amazon ES and process them accordingly.

Correct Answer: C

QUESTION 227

A solutions architect is creating an application that will handle batch processing of large amounts of data. The input data will be held in Amazon S3 and the output data will be stored in a different S3 bucket For processing, the application will transfer the data over the network between multiple Amazon EC2 instances. What should the solutions architect do to reduce the overall data transfer costs?

A. Place ail the EC2 instances in an Auto Scaling group
B. Place all the EC2 instances in the same AWS Region
C. Place ail the EC2 instances in the same Availability Zone
D. Place all the EC2 Instances in private subnets in multiple Availability Zones

Correct Answer: C

QUESTION 228

A solution architect has created a new AWS account and must secure AWS account root user access. Which combination of actions mil 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 m 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

Correct Answer: BD

QUESTION 229

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 work. The files are stored in an Amazon S3 Ducket. 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

Correct Answer: D

QUESTION 230
A user wants to list the IAM role that Is attached to their Amazon EC2 Instance. The user has login access to the EC2 instance but does not have IAM permissions. What should a solutions architect do to retrieve this information?

A.
```
Run the following EC2 command:
http://169.254.169.254/latest/dynamic/instance-identity/
```

B.
```
Run the following EC2 command:
curl http://169.254.169.254/latest/user-data/iam/info
```

C.
```
Run the following EC2 command:
curl http://169.254.169.254/latest/meta-data/iam/info
```

D.
```
Run the following AWS CLI command:
aws iam get-instance-profile --instance-profile-name ExampleInstanceProfile
```

Correct Answer: A

QUESTION 231
A company has deployed a business-critical application in the AWS Good. The application uses Amazon EC2 instances that run in the us-east-1 Region. The application uses Amazon S3 for storage of all critical data. To meet compliance requirements the company must create a disaster recovery (DR) plan that provides the capability of a full failover to another AWS Region. What should a solutions architect recommend for this DR plan?

A. Deploy the application to multiple Availability Zones in us-east-1. Create a resource group in AWS Resource Groups. Turn on automatic failover for the application to use a predefined recovery Region.
B. Perform a virtual machine (VM) export by using AWS Import/Export on the existing EC2 instances. Copy the exported instances to the destination Region in the event of a disaster provision new EC2 instances from the exported EC2 instances.
C. Create snapshots of all Amazon Elastic Block Store (Amazon EBS) volumes that are attached to the EC2 instances in us-east-t. Copy the snapshots to the destination Region In the event of a disaster provision new EC2 instances from the EBS snapshots.
D. Use S3 Cross-Region Replication for the data that is stored in Amazon S3. Create an AWS CloudFormation template for the application with an S3 bucket parameter In the event of a disaster deploy the template to the destination Region and specify the local S3 bucket as the parameter.

Correct Answer: D

QUESTION 232
A solutions architect is designing the architecture for a software demonstration environment. The environment will run on Amazon EC2 instances in an Auto Scaling group behind an Application Load Balancer (ALB). The system will experience significant increases in traffic during working hours but Is not required to operate on weekends. Which combination of actions should the solutions architect take to ensure that the system can scale to meet demand? (Select TWO)

A. Use AWS Auto Scaling to adjust the ALB capacity based on request rate.
B. Use AWS Auto Scaling to scale the capacity of the VPC internet gateway.
C. Launch the EC2 instances in multiple AWS Regions to distribute the load across Regions.
D. Use a target tracking scaling policy to scale the Auto Scaling group based on instance CPU