D. Use Amazon EC2 with Auto Scaling and Amazon ElastiCache to host the application.

Correct Answer: C

QUESTION 249
A database is on an Amazon RDS MySQL 5.6 Multi-AZ 06 instance that experiences highly dynamic reads. Application developers notice a significant slowdown when testing read performance from a secondary AWS Region. The developers want a solution that provider less than 1 second of read replication latency. What should the solutions architect recommend?

A. Install MySQL on Amazon EC2 in the secondary Region
B. Migrate the database to Amazon Aurora with cross-Region replicas.
C. Create another RDS for MySQL read replica m the secondary Region
D. Implement Amazon ElastiCache to improve database query performance

Correct Answer: B

QUESTION 250
A news company that has reporters ail over the world is hosting its broadcast system on AWS. The reporters send live broadcasts to the broadcast system. The reporters use software on their phones to send live streams through the Real Time Messaging Protocol (RTMP). A solutions architect must design a solution that gives the reporters the ability to send the highest quality streams. The solution must provide accelerated TCP connections back to the broadcast system. What should the solutions a use to meet these requirements?

A. Amazon CloudFront
B. AWS Global Accelerator
C. AWS Client VPN
D. Amazon EC2 Instances and AWS Elastic IP addresses

Correct Answer: B

QUESTION 251
A company has an application that scans millions of connected devices for security threats and pushes the scan logs to an Amazon S3 bucket. A total of 70 GB of data is generated each week, and the company needs to store 3 years of data for historical reporting. The company must process aggregate, and enrich the data from Amazon S3 by performing complex analytical queries and joins in the least amount of time. The aggregated dataset is visualized on an Amazon QuickSight dashboard. What should a solutions architect recommend to meet these requirements?

A. Create and run an ETL job in AWS Glue to process the data from Amazon S3 and load it into Amazon Redshift Perform the aggregation queries on Amazon Redshift.
B. Use AWS Lambda functions based on S3 PutObject event triggers to copy the incremental changes to Amazon DynamoDB Perform the aggregation queries on DynamoDB.
C. Use AWS Lambda functions based on S3 PutObject event triggers to copy the incremental changes to Amazon Aurora MySQL Perform the aggregation queries on Aurora MySQL.
D. Use AWS Glue to catalog the data in Amazon S3. Perform the aggregation queries on the cataloged tables by using Amazon Athena Query the data directly from Amazon S3.

Correct Answer: A

QUESTION 252
A company is running a mission-critical application on Amazon EC2 instances henna an Application Load Balancer. The instances run in an Auto Scaling group in a single AWS Region. The application is using a database in Ama2on Aurora as the data tier. A recent audit revealed that the current deployment of Aurora is not highly available. What should a solutions architect do to improve the availability of the database?

A. Configure an Aurora Replica
B. Configure storage replication.
C. Configure storage auto scaling.
D. Configure cross-Region replication

Correct Answer: B

QUESTION 253
A company is hosting a web application from an Amazon S3 bucket. The application uses Amazon Cognito as an identity provider lo authenticate users and return a JSON Web Token (JWT) that provides access to protected resources that am restored in another S3 bucket. Upon deployment of the application, users report errors and are unable to access the protected content. A solutions architect must resolve this issue by providing proper permissions so that users can access the protected content. Which solution meets these requirements?

A. Update the Amazon Cognito identity pool to assume the proper IAM role for access to the protected consent.
B. Update the S3 ACL to allow the application to access the protected content.
C. Redeploy the application to Amazon 33 to prevent eventually consistent reads m the S3 bucket from affecting the ability of users to access the protected content.
D. Update the Amazon Cognito pool to use custom attribute mappings within tie Identity pool and grant users the proper permissions to access the protected content.

Correct Answer: B

QUESTION 254
Some of the company's customers are retrieving records frequently, leading to an increase in costs for the company. The company wants to limit retrieved requests in the future. The company also wants to ensure that if one customer reaches its retrieval limit other customers will not affected. Which solution will meet these requirements?

A. Set up server-side throttling limits for API Gateway.
B. Limit DynamoDB read throughput on the table lo an amount that results m the maximum cost that the company is willing to incur.
C. Set up a usage plan for API Gateway Implement throttling limits tor each customer and distribute API keys to each customer.
D. Set up AWS Budgets. Monitor the usage of API Gateway and DynamoDB. Configure an alarm to provide an alert when the cost exceeds a certain threshold each month.

Correct Answer: D

QUESTION 255
A company is running an application on AWS to process weather sensor data that is stored in an Amazon S3 bucket. Three batch jobs run hourly to process the data in the S3 bucket for different

purposes. The company wants to reduce the overall processing time by running. The three applications in parallel using an event-based approach. What should a solutions architect do to meet these requirements?

A. Enable S3 Event Notifications for new objects to an Amazon Simple Queue Service (Amazon SOS) FIFO queue. Subscribe all applications to the queue for processing.
B. Enable S3 Event Notifications for new objects to an Amazon Simple Queue Service (Amazon SOS) standard queue. Create an additional SOS queue for all applications, and subscribe all applications to the meal queue for processing.
C. Enable S3 Event Notifications for new objects to separate Amazon Simple Queue Service (Amazon SOS) FIFO queues. Create an additional SOS queue (or each application and subscribe each queue to the initial topic for processing.
D. Enable S3 Event Notifications tor new objects to an Amazon Simple Notification Service (Amazon SNS) topic. Create an Amazon Simple Queue Service (Amazon SOS) queue for each application, and subscribe each queue to the topic for processing.

Correct Answer: D

QUESTION 256
A company needs to save the results from a medical trial to an Amazon S3 repository. The repository must allow a few scientists to add new dies and must restrict all other users to read-only access No users can have the ability to modify or delete any files in the repository. The company must heap every lie in the repository for a minimum of 1 year after its creation date. Which solution will meet these requirements?

A. Use S3 Object Lock In governance mode with a legal hold of 1 year.
B. Use S3 Object Lock in compliance mode with a retention period of 365 days.
C. Use an IAM role to restrict all users from deleting or changing objects in the S3 bucket Use an S3 bucket policy to only allow the IAM role.
D. Configure the S3 bucket to invoke an AWS Lambda function every tune an object is added. Configure the function to track the hash of the saved object to that modified objects can be marked accordingly.

Correct Answer: B

QUESTION 257
A solutions architect Is designing a new API using Amazon API Gateway that will receive requests from users. The volume of requests is highly variable: several hours can pass without receiving a single request. The data processing will take place asynchronously, but should be completed within a few seconds after a request la made. Which compute service should the solutions architect have the API invoke to deliver the requirements at the lowest cost?

A. An AWS Glue job
B. An AWS Lambda function
C. A containerized service hosted in Amazon Elastic Kubemetes Service {Amazon EKS)
D. A containerized service hosted in Amazon ECS with Amazon EC2

Correct Answer: C

QUESTION 258
A company has several Amazon EC2 instances set up m a private subnet for security reasons. These instances host applications that read and write large amounts of data to end from Amazon

S3 regularly. Currently subnet routing directs all the traffic destined for the internet through a NAT gateway. The company wants to optimize the overall coat without impacting the ability of the application to communication Amazon S3 or the outside internet. What should a solutions architect do to optimize costs?

A. Create an additional NAT gateway. Update the route table to route to the NAT gateway. Update the network ACL lo allow S3 traffic.
B. Create an internet gateway. Update the route table to route traffic to the internet gateway. Update the network ACL to allow S3 traffic.
C. Create a VPC endpoint for Amazon S3 Attach an endpoint policy to the endpoint. Update the route table lo direct traffic to the VPC endpoint.
D. Create an AWS Lambda function outside of the VPC to handle S3 requests. Attach an IAM policy to the EC2 instances, allowing them to invoke the Lambda function.

Correct Answer: C

QUESTION 259
A company has a web application for travel ticketing. The application is based on a database that runs in a single data center in North America. The company wants to expand the application to serve a global user base. The company needs to deploy the application to multiple AWS Regions Average latency must be less than 1 second on updates to the reservation database. The company wants to have separate deployments of its web platform across multiple Regions. However, the company must maintain a single primary reservation database that is globally consistent. Which solution should a solutions architect recommend to meet these requirements"

A. Convert the application to use Amazon DynamoDB. Use a global table for the center reservation table. Use the correct Regional endpoint in each Regional deployment.
B. Migrate the database to an Amazon Aurora MySQL database Deploy Aurora Read Replicas in each Region. Use the correct Regional endpoint in each Regional deployment for access to the database.
C. Migrate the database to an Amazon RDS for MySQL database Deploy MySQL read replicas in each Region. Use the correct Regional endpoint in each Regional deployment for access to the database.
D. Migrate the application to an Amazon Aurora Serverless database Deploy instances of the database to each Region. Use the correct Regional endpoint in each Regional deployment to access the database Use AWS Lambda functions to process event streams in each Region to synchronize the databases.

Correct Answer: B

QUESTION 260
A company wants to automate the security assessment of its Amazon EC2 instances. The company needs to validate and demonstrate that it is meeting security and compliance standards throughout the development process. What should a solutions architect do to meet these requirements?

A. Use Amazon Macie to automatically discover, classify and protect the EC2 instances.
B. Use Amazon GuardDuty on the EC2 instances to publish Amazon Simple Notification Service (Amazon SNS) notifications.
C. Use Amazon Inspector with Amazon CloudWatch to publish Amazon Simple Notification Service (Amazon SNS) notifications.
D. Use Amazon EventBridge (Amazon CloudWatch Events) to detect and react to changes in the status of AWS Trusted Advisor checks.

Correct Answer: C

QUESTION 261
A company wants to migrate its accounting system from an on-premises data center to the AWS Cloud m a single AWS Region. Data security and an immutable audit log are the top priorities. The company must monitor all AWS activities for compliance auditing. The company that enabled AWS CloudTrail but wants to make sure it meets meat requirements. Which actions should a solutions architect take lo protect and secure CloudTrail? (Select TWO.)

A.   Enable CloudTrail log file validation.
B.   Enable the CloudTrail Proceeding Library.
C.   Enable logging of Insights events in CloudTrail.
D.   Enable custom logging from the on-premises resources.
E.   Create an AWS Config rule to monitor whether CloudTrail is configured to use server-side encryption with AWS KMS managed encryption keys (SSE-KMS).

Correct Answer: AE

QUESTION 262
A company runs an application on an Amazon EC2 instances backed by Amazon Elastic Block Store (Amazon EBS). The instances needs to be available for 12 hours daily. The company wants to save costs by making the instance outside the window required for the application. However, the contents of the memory must be preserved whenever the instance is unavailable. What should a solutions architect do lo meet this requirement?

A.   Stop the instance outside the application's availability window Start up the instance again when required.
B.   Hibernate the instance outside the application's availability window Start up the instance again when required.
C.   Use Auto Scaling to scale down the instance outside the application's availability window Scale up the instance when required.
D.   Terminate the instance outside the application's availability window Launch the instance by using a preconfigured Amazon Machine Image (AMI) when required.

Correct Answer: A

QUESTION 263
A customer is running an application on Amazon EC2 instances hosted in a private subnet of a VPC. The EC2 instances are configured in an Auto Scaling group behind an Elastic Load Balancer (ELB). The EC2 instances use a NAT gateway outbound internet access. However, the EC2 instances are not able to connect to the public internet to download software updates.

A.   The ELB is not configured with a proper health check.
B.   The route tables in the VPC are configured incorrectly.
C.   The EC2 instances are not associated with an Elastic IP address.
D.   The security group attached to the NAT gateway is configured incorrectly.
E.   The outbound rules on the security group attachment to the EC2 instances are configured