solutions architect recommend? {Select TWO)

A.  Use AWS Cloud Formation to update the production infrastructure and roll back the stack if the update fails
B.  Apply Amazon Route 53 weighted routing to test the staging environment and gradually increase the traffic as the tests pass
C.  Apply Amazon Route 53 failover routing to test the staging environment and fail over to the production environment if the tests pass
D.  Use AWS Cloud Formation with a parameter set to the staging value in a separate environment other than the production environment
E.  Use AWS Cloud Formation to deploy the staging environment with a snapshot deletion policy and reuse the resources in the production environment if the tests pass

**Correct Answer:** AE


**QUESTION 173**
A company is designing a shared storage solution for a gaming application that is hosted in the AWS Cloud. The company needs the ability to use SMB clients to access data solution must be fully managed. Which AWS solution meets these requirements?

A.  Create an AWS DataSync task that shares the data as a mountable file system Mount the file system to the application server
B.  Create an Amazon EC2 Windows instance Install and configure a Windows file share role on the instance Connect the application server to the file share
C.  Create an Amazon FSx for Windows File Server file system Attach the file system to the origin server Connect the application server to the file system
D.  Create an Amazon S3 bucket Assign an IAM role to the application to grant access to the S3 bucket Mount the S3 bucket to the application server

**Correct Answer:** C


**QUESTION 174**
A company has designed an application where users provide small sets of textual data by calling a public API. The application runs on AWS and includes a public Amazon API Gateway API that forwards requests to an AWS Lambda function for processing. The Lambda function then writes the data to an Amazon Aurora Serverless database for consumption. The company is concerned that it could lose some user data it a Lambda function fails to process the request property or reaches a concurrency limit. What should a solutions architect recommend to resolve this concern?

A.  Split the existing Lambda function into two Lambda functions Configure one function to receive API Gateway requests and put relevant items into Amazon Simple Queue Service (Amazon SQS) Configure the other function to read items from Amazon SQS and save the data into Aurora
B.  Configure the Lambda function to receive API Gateway requests and write relevant items to Amazon ElastiCache Configure ElastiCache to save the data into Aurora
C.  Increase the memory for the Lambda function Configure Aurora to use the Multi-AZ feature
D.  Split the existing Lambda function into two Lambda functions Configure one function to receive

API Gateway requests and put relevant items into Amazon Simple Notification Service (Amazon SNS) Configure the other function to read items from Amazon SNS and save the data into Aurora

**Correct Answer:** A

**QUESTION 175**
A developer is creating an AWS Lambda function to perform dynamic updates to a database when an item is added to an Amazon Simple Queue Service (Amazon SOS) queue. A solutions architect must recommend a solution that tracks any usage of database credentials in AWS CloudTrail. The solution also must provide auditing capabilities. Which solution will meet these requirements?

A. Store the encrypted credentials in a Lambda environment variable
B. Create an Amazon DynamoDB table to store the credentials Encrypt the table
C. Store the credentials as a secure string in AWS Systems Manager Parameter Store
D. Use an AWS Key Management Service (AWS KMS) key store to store the credentials

**Correct Answer:** D

**QUESTION 176**
An application runs on Amazon EC2 instances in private subnets. The application needs to access an Amazon DynamoDB table. What is me MOST secure way to access the table while ensuring that the traffic does not leave the AWS network?

A. Use a VPC endpoint for DynamoDB
B. Use a NAT gateway in a public subnet
C. Use a NAT instance in a private subnet
D. Use the internet gateway attached to the VPC

**Correct Answer:** A

**QUESTION 177**
A company wants to provide users with access lo AWS resources. The company has 1500 users and manages their access to on-premises resources through Active Directory user groups on the corporate network. However, the company does not want users to have to maintain another identity to access the resources. A solutions architect must manage user access to the AWS resources while preserving access to the on-premises resources. What should the solutions architect do to meet these requirements?

A. Create an IAM user for each user in the company Attach the appropriate policies to each user
B. Use Amazon Cognito with an Active Directory user pool Create rotes with the appropriate policies attached
C. Define cross-account roles with the appropriate policies attached Map the roles to the Active Directory groups
D. Configure Security Assertion Markup Language (SAML) 2 0-based federation Create roles with the appropriate policies attached Map the roles to the Active Directory groups

**Correct Answer:** D

**QUESTION 178**
A company hosts its website on AWS. To address the highly variable demand the company has implemented Amazon EC2 Auto Scaling Management is concerned that the company Is over-prows toning its infrastructure, especially at the front end of the three-tier application. A solutions architect needs to ensure costs are optimized without impacting performance. What should the solutions architect do to accomplish this?

A. Use Auto Scaling with Reserved Instances
B. Use Auto Scaling with a scheduled scaling policy
C. Use Auto Scaling with the suspend-resume feature.
D. Use Auto Scaling with a target tracking scaling policy

**Correct Answer:** D


**QUESTION 179**
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 dented responses to incoming traffic from blocked countries

**Correct Answer:** C


**QUESTION 180**
An ecommerce company has noticed performance degradation of its Amazon RDS based web application. The performance degradation is attributed to an increase in the number of read-only SQL queries triggered by business analysts. A solutions architect needs to solve the problem with minimal changes to the existing web application. What should the solutions architect recommend"

A. Export the data to Amazon DynamoDB and have the business analysts run their queries
B. Load the data into Amazon ElastiCache and have the business analysts run their queries
C. Create a read replica of the primary database and have the business analysts run their queries
D. Copy the data into an Amazon Redshift cluster and have the business analysts run their queries

**Correct Answer:** C


**QUESTION 181**
A company has thousands of edge devices that collectively generate 1 TB of status averts each day Each alert s approximately 2 KB in size. A solutions architect needs to implement a solution to ingest and store the alerts for future analysis. The company wants a highly available solution.

However the company needs to minimize costs and does not want to manage additional infrastructure Additionally, the company wants to keep 14 days of data available for immediate analysis and archive any data older than 14 days. What is the MOST operationally efficient solution that meets these requirements?

A. Create an Amazon Kinesis Data Firehose delivery stream to ingest the alerts Configure the Kinesis Data Firehose stream to deliver the alerts to an Amazon S3 bucket. Set up an S3 Lifecycle configuration to transition data to Amazon S3 Glacier after 14 days.
B. Launch Amazon EC2 instances across two Availability Zones and place them behind an Elastic Load Balancer to ingest the alerts Create a script on the EC2 instances that will store tne alerts m an Amazon S3 bucket. Set up an S3 Lifecycle configuration to transition data to Amazon S3 Glacier after 14 days.
C. Create an Amazon Kinesis Data Firehose delivery stream to ingest the alerts Configure the Kinesis Data Firehose stream to deliver the alerts to an Amazon Elasticsearch Service (Amazon ES) duster. Set up the Amazon ES cluster to take manual snapshots every day and delete data from the duster that is older than 14 days.
D. Create an Amazon Simple Queue Service (Amazon SQS) standard queue to ingest the alerts and set the message retention period to 14 days. Configure consumers to poll the SQS queue check the age of the message and analyze the message data as needed If the message is 14 days old the consumer should copy the message to an Amazon S3 bucket and delete the message from the SQS queue.

**Correct Answer:** A


**QUESTION 182**
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

**Correct Answer:** B


**QUESTION 183**
A company is planning to store sensitive documents in an Amazon S3 bucket. The documents must be encrypted al rest. The company wants to manage the underlying keys that are used lor encryption. However, the company does not want to manage the encryption and decryption process. Which solutions will meet these requirements? (Select TWO.)

A. Use server-side encryption with customer-provided encryption keys (SSE-C).
B. Use client-side encryption with AWS managed keys.
C. Use server-side encryption with S3 managed encryption keys (SSE-S3).
D. Use server-side encryption with AWS KMS managed encryption keys (SSE-KMS) with a key

policy document that is 40 KB in size.
E. Use server-side encryption with AWS KMS managed encryption keys (SSE-KMS) that the company uploads to AWS KMS.

**Correct Answer:** CE

## QUESTION 184
A solutions architect is deploying a distributed database on multiple Amazon EC2 instances. The database stores all data on multiple instances so it can withstand the loss of an instance. The database requires block storage with latency and throughput to support several million transactions per second per server. Which storage solution should the solutions architect use?

A. Amazon EBS
B. Amazon EC2 instance store
C. Amazon EFS
D. Amazon S3

**Correct Answer:** B

## QUESTION 185
A company has a service that reads and writes large amounts of data from an Amazon S3 bucket in the same AWS Region. The service is deployed on Amazon EC2 instances within the private subnet of a VPC. The service communicates with Amazon S3 over a NAT gateway in the public subnet. However, the company wants a solution that will reduce the data output costs. Which solution will meet these requirements MOST cost-effectively?

A. Provision a dedicated EC2 NAT instance in the public subnet. Configure the route table for the private subnet to use the elastic network interface of this instance as the destination for all S3 traffic.
B. Provision a dedicated EC2 NAT instance in the private subnet. Configure the route table for the public subnet to use the elastic network interface of this instance as the destination for all S3 traffic.
C. Provision a VPC gateway endpoint. Configure the route table for the private subnet to use the gateway endpoint as the route for all S3 traffic.
D. Provision a second NAT gateway. Configure the route table foe the private subnet to use this NAT gateway as the destination for all S3 traffic.

**Correct Answer:** C

## QUESTION 186
A company wants lo share data that is collected from sell-driving cars with the automobile community. The data will be made available (rom within an Amazon S3 bucket. The company wants to minimize its cost of making this data available to other AWS accounts. What should a solutions architect do to accomplish this goal?

A. Create an S3 VPC endpoint for the bucket.
B. Configure the S3 bucket to be a Requester Pays bucket.
C. Create an Amazon CloudFront distribution in front of the S3 bucket.
D. Require that the fries be accessible only with the use of the BitTorrent protocol.

**Correct Answer:** A