QUESTION 418
A company manages and runs a critical data management application in containers that are hosted on Amazon Elastic Container Service (Amazon ECS). The application has endpoints that are exposed through Application Load Balancers (ALBs). The application uses an Amazon Elastic File System (Amazon EFS) file system mount for persistent data storage. The company has configured Amazon ECS to use a minimal IAM instance role. Which combination of actions should a solutions architect take to improve the overall security posture of the application? (Select TWO.)

A. Decompose the Amazon ECS IAM instance role. Use only ECS task roles.
B. Enable EFS encryption in transit to protect data that is being written to Amazon EFS.
C. Use AWS. Config to define patch management policies on the container instances.
D. Use Amazon Macie integration with Amazon EFS to monitor and protect sensitive information in the file system.
E. Use Amazon GuardDuty to authenticate data access between the ALBs and the container instances.

Correct Answer: CD

QUESTION 419
A company wants to use AWS Systems Manager to manage a fleet ol Amazon EC2 instances. According to the company's security requirements, no EC2 instances can have internet access. A solutions architect needs to design network connectivity from the EC2 instances to Systems Manager while fulfilling this security obligation. Which solution will meet these requirements?

A. Deploy the EC2 instances into a private subnet with no route to the internet.
B. Configure an interface VPC endpoint for Systems Manager. Update routes to use the endpoint.
C. Deploy a NAT gateway into a public subnet. Configure private subnets with a default route to the NAT gateway.
D. Deploy an internet gateway. Configure a network ACL to deny traffic to all destinations except Systems Manager.

Correct Answer: C

QUESTION 420
A company runs analytics software on Amazon EC2 instances. The software accepts job requests from users to process data that has been uploaded to Amazon S3. Users report that some submitted data is not being processed Amazon CloudWatch reveals that the EC2 instances have a consistent CPU utilization at of near 100%. The company wants to improve system performance and scale the system based on user load. What should a solutions architect do to meet these requirements?

A. Create a copy of the instance. Place all instances behind an Application Load Balancer.
B. Create an S3 VPC endpoint for Amazon S3. Update the software to reference the endpoint.
C. Stop the EC2 instances. Modify the instance type to one with a more powerful CPU and more memory. Restart the instances.
D. Route incoming requests to Amazon Simple Queue Service (Amazon SQS). Configure an EC2 Auto Scaling group based on queue size. Update the software to read from the queue.

Correct Answer: C

QUESTION 421

A social media company wants to allow its users to upload images in an application that is hosted in the AWS Cloud. The company needs a solution that automatically resizes the images so that the images can be displayed on multiple device types. The application experiences unpredictable traffic patterns throughout the day. The company is seeking a highly available solution that maximizes scalability. What should a solutions architect do to meet these requirements?

A. Create a static website hosted in Amazon S3 that invokes AWS Lambda functions to resize the images and store the images in an Amazon S3 bucket.
B. Create a static website hosted in Amazon CloudFront that invokes AWS Step Functions to resize the images and store the images in an Amazon RDS database.
C. Create a dynamic website hosted on a web server that runs on an Amazon EC2 instance. Configure a process that runs on the EC2 instance to resize the images and store the images in an Amazon S3 bucket.
D. Create a dynamic website hosted on an automatically scaling Amazon Elastic Container Service (Amazon ECS) cluster that creates a resize job in Amazon Simple Queue Service (Amazon SQS). Set up an image-resizing program that runs on an Amazon EC2 instance to process the resize jobs.

Correct Answer: A

QUESTION 422
A company is seeing access requests by some suspicious IP addresses. The security team discovers the requests are from different IP addresses under the same CIDR range. What should a solutions architect recommend to the team?

A. Add a rule in the inbound table of the secunty group to deny the traffic from that CIDR range
B. Add a rule in the outbound table of the security group to deny the traffic from that CIDR range
C. Add a deny rule in the inbound table of the network ACL with a lower rule number than other rules
D. Add a deny rule in the outbound table of the network ACL with a lower rule number than other rules

Correct Answer: C

QUESTION 423
A company uses Amazon S3 as its object storage solution. The company has thousands of S3 buckets it uses to store data. Some of the S3 buckets have data that is accessed less frequently than others. A solutions architect found that lifecycle policies are not consistently implemented or are implemented partially: resulting in data being stored in high-cost storage. Which solution will lower costs without compromising the availability of objects?

A. Use S3 ACLs
B. Use Amazon Elastic Block Store (Amazon EBS) automated snapshots
C. Use S3 Intelligent-Tiering storage
D. Use S3 One Zone-Infrequent Access (S3 One Zone-IA)

Correct Answer: C

QUESTION 424
A company uses Application Load Balancers (ALBs) in different AWS Regions. The ALBs receive inconsistent traffic that can spike and drop throughout the year. The company's networking team needs to allow the IP addresses of the ALBs in the on-premises firewall to enable connectivity. Which solution is the MOST scalable with minimal configuration changes?

A. Write an AWS Lambda script to get the IP addresses of the ALBs in different Regions. Update the on-premises firewall's rule to allow the IP addresses of the ALBs.
B. Migrate all ALBs in different Regions to the Network Load Balancers (NLBs). Update the on-premises firewall's rule to allow the Elastic IP addresses of all the NLBs.
C. Launch AWS Global Accelerator Register the ALBs in different Regions to the accelerator. Update the on-premises firewall's rule to allow static IP addresses associated with the accelerator.
D. Launch a Network Load Balancer (NLB) in one Region Register the private IP addresses of the ALBs in different Regions with the NLB. Update the on-premises firewall's rule to allow the Elastic IP address attached to the NLB.

Correct Answer: C

QUESTION 425
A company is planning to run a group of Amazon EC2 instances that connect to an Amazon Aurora database. The company has built an AWS CloudFormation template to deploy the EC2 instances and the Aurora DB cluster. The company wants to allow the instances to authenticate to the database in a secure way. The company does not want to maintain static database credentials. Which solution meets these requirements with the LEAST operational effort?

A. Create a database user with a user name and password. Add parameters for the database user name and password to the CloudFormation template. Pass the parameters to the EC2 instances when the instances are launched.
B. Create a database user with a user name and password. Store the user name and password in AWS Systems Manager Parameter Store. Configure the EC2 instances to retrieve the database credentials from Parameter Store.
C. Configure the DB cluster to use IAM database authentication. Create a database user to use with IAM authentication. Associate a role with the EC2 instances to allow applications on the instances to access the database.
D. Configure the DB cluster to use IAM database authentication with an IAM user. Create a database user that has a name that matches the IAM user. Associate the IAM user with the EC2 instances to allow applications on the instances to access the database.

Correct Answer: C

QUESTION 426
A company wants to move its on-premises network attached storage (NAS) to AWS. The company wants to make the data available to any Linux instances within its VPC and ensure changes are automatically synchronized across all instances accessing the data store. The majority of the data is accessed very rarely, and some files are accessed by multiple users at the same time. Which solution meets these requirements and is MOST cost-effective?

A. Create an Amazon Elastic Block Store (Amazon EBS) snapshot containing the data. Share it with users within the VPC.
B. Create an Amazon S3 bucket that has a lifecycle policy set to transition the data to S3 Standard-Infrequent Access (S3 Standard-IA) after the appropriate number of days.
C. Create an Amazon Elastic File System (Amazon EFS) file system within the VPC. Set the throughput mode to Provisioned and to the required amount of IOPS to support concurrent usage.
D. Create an Amazon Elastic File System (Amazon EFS) file system within the VPC. Set the hfecycle policy to transition the data to EFS Infrequent Access (EFS IA) after the appropriate number of days.

Correct Answer: D

QUESTION 427
A company provides an online service for posting video content and transcoding it for use by any mobile platform. The application architecture uses Amazon Elastic File System (Amazon EFS) Standard to collect and store the videos so that multiple Amazon EC2 Linux instances can access the video content for processing. As the popularity of the service has grown over time, the storage costs have become too expensive. Which storage solution is MOST cost-effective?

A. Use AWS Storage Gateway for files to store and process the video content.
B. Use AWS Storage Gateway for volumes to store and process the video content.
C. Use Amazon EFS for storing the video content. Once processing is complete transfer the files to Amazon Elastic Block Store (Amazon EBS).
D. Use Amazon S3 for storing the video content. Move the files temporarily over to an Amazon Elastic Block Store (Amazon EBS) volume attached to the server for processing.

Correct Answer: D

QUESTION 428
A company has a web application that users access from around the world. The company has web servers in multiple AWS Regions to support the traffic. A solutions architect must configure an Amazon Route 53 routing policy to send traffic to only the active web servers. Which configuration meets this requirement?

A. Create a simple routing policy that uses health checks for each Region
B. Create a multivalue answer routing policy that uses health checks for each Region
C. Create a geoproximity routing policy with a health check bias of 99 for each Region
D. Create a weighted routing policy with a health check weight of 100 for each Region

Correct Answer: B

QUESTION 429
A company hosts its application in the AWS Cloud. The application runs on Amazon EC2 instances behind an Elastic Load Balancer in an Auto Scaling group and with an Amazon DynamoDB table. The company wants to ensure the application can be made available in another AWS Region with minimal downtime. What should a solutions architect do to meet these requirements with the LEAST amount of downtime?

A. Create an Auto Scaling group and a load balancer in the disaster recovery Region. Configure the DynamoDB table as a global table. Configure DNS failover to point to the new disaster recovery Region's load balancer.
B. Create an AWS CloudFormation template to create EC2 instances, load balancers, and DynamoDB tables to be launched when needed. Configure DNS failover to point to the new disaster recovery Region's load balancer.
C. Create an AWS CloudFormation template to create EC2 instances and a load balancer to be launched when needed. Configure the DynamoDB table as a global table. Configure DNS failover to point to the new disaster recovery Region's load balancer.
D. Create an Auto Scaling group and load balancer in the disaster recovery Region. Configure the DynamoDB table as a global table. Create an Amazon CloudWatch alarm to trigger an AWS Lambda function that updates Amazon Route 53 pointing to the disaster recovery load balancer.

Correct Answer: A

QUESTION 430
A company is concerned that two NAT instances in use will no longer be able to support the traffic needed for the company's application. A solutions architect wants to implement a solution that is highly available fault tolerant and automatically scalable. What should the solutions architect recommend?

A. Remove the two NAT instances and replace them with two NAT gateways in the same Availability Zone
B. Use Auto Scaling groups with Network Load Balancers for the NAT instances in different Availability Zones
C. Remove the two NAT instances and replace them with two NAT gateways in different Availability Zones
D. Replace the two NAT instances with Spot Instances in different Availability Zones and deploy a Network Load Balancer

Correct Answer: C

QUESTION 431
A company wants to use a custom distributed application that calculates various profit and loss scenarios. To achieve this goal, the company needs to provide a network connection between its Amazon EC2 instances. The connection must minimize latency and must maximize throughput. Which solution will meet these requirements?

A. Provision the application to use EC2 Dedicated Hosts of the same instance type.
B. Configure a placement group for EC2 instances that have the same instance type.
C. Use multiple AWS elastic network interfaces and link aggregation.
D. Configure AWS PrivateLink for the EC2 instances.

Correct Answer: A

QUESTION 432
A solutions architect at an ecommerce company wants to back up application log data to Amazon S3. The solutions architect is unsure how frequently the logs will be accessed of which logs will be accessed the most. The company wants to keep costs as low as possible by using the appropriate S3 storage class. Which S3 storage class should be implemented to meet these requirements?

A. S3 Glacier
B. S3 Intelligent-Tiering
C. S3 Standard-Infrequent Access (S3 Standard-IA)
D. S3 One Zone-Infrequent Access (S3 One Zone-IA)

Correct Answer: B
QUESTION 433
A company is hosting a static website on Amazon S3 and is using Amazon Route 53 for DNS. The website is experiencing increased demand from around the world. The company must decrease latency for users who access the website. Which solution meets these requirements MOST cost-effectively?

A. Replicate the S3 bucket that contains the website to all AWS Regions. Add Route 53 geolocation routing entries.
B. Provision accelerators in AWS Global Accelerator. Associate the supplied IP addresses with the