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QUESTION 1

An IoT company collects data from thousands of sensors that are deployed in the United States and South Asia. The sensors use a proprietary communication protocol that is built on UDP to send the data to a fleet of Amazon EC2 instances. The instances are in an Auto Scaling group and run behind a Network Load Balancer (NLB). The instances, Auto Scaling group, and NLB are deployed in the us-west-2 Region. Occasionally, the data from the sensors in South Asia gets lost in transit over the internet and does not reach the EC2 instances. Which solutions will resolve this issue? (Choose two.)

- A. Use AWS Global Accelerator with the existing NLB.
- B. Create an Amazon CloudFront distribution. Specify the existing NLB as the origin.
- C. Create a second deployment of the EC2 instances and the NLB in the ap-south-1 Region. Use an Amazon Route 53 latency routing policy to resolve to the Region that provides the least latency.
- D. Create a second deployment of the EC2 instances and the NLB in the ap-south-1 Region. Use an Amazon Route 53 failover routing policy to resolve to an alternate Region in case packets are dropped.
- E. Turn on enhanced networking on the EC2 instances by using the most recent Elastic Network Adapter (ENA) drivers.

Correct Answer: AC

Global Accelerator is one option. Another option is to have a second fleet of EC2 instances deployed in South Asia region and then have Route 53 latency based routing policy enabled.

QUESTION 2

A company uses an AWS Direct Connect private VIF with a link aggregation group (LAG) that consists of two 10 Gbps connections. The company's security team has implemented a new requirement for external network connections to provide layer 2 encryption. The company's network team plans to use MACsec support for Direct Connect to meet the new requirement. Which combination of steps should the network team take to implement this functionality? (Choose three.)

- A. Create a new Direct Connect LAG with new circuits and ports that support MACsec.
- B. Associate the MACsec Connectivity Association Key (CAK) and the Connection Key Name (CKN) with the new LAG.
- C. Associate the Internet Key Exchange (IKE) with the existing LAG.
- D. Configure the MACsec encryption mode on the existing LAG.
- E. Configure the MACsec encryption mode on the new LAG.
- F. Configure the MACsec encryption mode on each Direct Connect connection that makes up the existing LAG.

Correct Answer: ABE

To start using MACsec, you must turn the feature on when you create a dedicated connection.

<https://docs.aws.amazon.com/directconnect/latest/UserGuide/create-lag.html>

<https://docs.aws.amazon.com/directconnect/latest/UserGuide/direct-connect-mac-sec-getting-started.html>

<https://docs.aws.amazon.com/directconnect/latest/UserGuide/associate-key-lag.html>



QUESTION 3

A global delivery company is modernizing its fleet management system. The company has several business units. Each business unit designs and maintains applications that are hosted in its own AWS account in separate application VPCs in the same AWS Region. Each business unit's applications are designed to get data from a central shared services VPC. The company wants the network connectivity architecture to provide granular security controls. The architecture also must be able to scale as more business units consume data from the central shared services VPC in the future. Which solution will meet these requirements in the MOST secure manner?

- A. Create a central transit gateway. Create a VPC attachment to each application VPC. Provide full mesh connectivity between all the VPCs by using the transit gateway.
- B. Create VPC peering connections between the central shared services VPC and each application VPC in each business unit's AWS account.
- C. Create VPC endpoint services powered by AWS PrivateLink in the central shared services VPC. Create VPC endpoints in each application VPC.
- D. Create a central transit VPC with a VPN appliance from AWS Marketplace. Create a VPN attachment from each VPC to the transit VPC. Provide full mesh connectivity among all the VPCs.

Correct Answer: C

VPC endpoint services powered by AWS PrivateLink will provide the highest level of security by keeping all network traffic within the AWS network. It allows for granular security controls by allowing only authorized traffic from the application VPC to the central shared services VPC, reducing the attack surface area.

QUESTION 4

An application team for a startup company is deploying a new multi-tier application into the AWS Cloud. The application will be hosted on a fleet of Amazon EC2 instances that run in an Auto Scaling group behind a publicly accessible Network Load Balancer (NLB). The application requires the clients to work with UDP traffic and TCP traffic. In the near term, the application will serve only users within the same geographic location. The application team plans to extend the application to a global audience and will move the deployment to multiple AWS Regions around the world to bring the application closer to the end users. The application team wants to use the new Regions to deploy new versions of the application and wants to be able to control the amount of traffic that each Region receives during these rollouts. In addition, the application team must minimize first-byte latency and jitter (randomized delay) for the end users. How should the application team design the network architecture for the application to meet these requirements?

- A. Create an Amazon CloudFront distribution to align to each Regional deployment. Set the NLB for each Region as the origin for each CloudFront distribution. Use an Amazon Route 53 weighted routing policy to control traffic to the newer Regional deployments.
- B. Create an AWS Global Accelerator accelerator and listeners for the required ports. Configure endpoint groups for each Region. Configure a traffic dial for the endpoint groups to control traffic to the newer Regional deployments. Register the NLBs with the endpoint groups.
- C. Use Amazon S3 Transfer Acceleration for the application in each Region. Adjust the amount of traffic that each Region receives from the Transfer Acceleration endpoints to the Regional NLBs.
- D. Create an Amazon CloudFront distribution that includes an origin group. Set the NLB for each Region as the origins for the origin group. Use an Amazon Route 53 latency routing policy to control traffic to the new Regional deployments.



Correct Answer: B

CloudFront is designed to handle HTTP protocol meanwhile Global Accelerator is best used for both HTTP and non-HTTP protocols such as TCP and UDP. and CloudFront doesn't support NLB

QUESTION 5

A company's security guidelines state that all outbound traffic from a VPC to the company's on-premises data center must pass through a security appliance. The security appliance runs on an Amazon EC2 instance. A network engineer needs to improve the network performance between the on-premises data center and the security appliance. Which actions should the network engineer take to meet these requirements? (Choose two.)

- A. Use an EC2 instance that supports enhanced networking.
- B. Send outbound traffic through a transit gateway.
- C. Increase the EC2 instance size.
- D. Place the EC2 instance in a placement group within the VPC.
- E. Attach multiple elastic network interfaces to the EC2 instance.

Correct Answer: AC

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-networking.html>

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