ANS-C01^{Q&As}

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QUESTION 1

A company hosts its IT infrastructure in an on-premises data center. The company wants to migrate the infrastructure to the AWS Cloud inphases. A network engineer wants to set up a 10 Gbps AWS Direct Connect dedicated connection between the on-premises data center andVPCs. The company\\'s network provider needs 3 months to provision the Direct Connect connection.In the meantime, the network engineer implements a temporary solution by deploying an AWS Siteto-Site VPN connection that terminates toa virtual private gateway. The network engineer observes that the bandwidth of the Site-to-Site VPN connection is capped at 1.25 Gbpsdespite a powerful customer gateway device.What should the network engineer do to improve the VPN connection bandwidth before the implementation of the Direct Connect connection?

A. Contact AWS Support to request a bandwidth quota increase for the existing Site-to-Site VPN connection.

B. Discuss the issue with the hardware vendor. Buy a bigger and more powerful customer gateway device that has faster encryption anddecryption capabilities.

C. Create several additional Site-to-Site VPN connections that terminate on the same virtual gateway. Configure equal-cost multi-path(ECMP) routing to use all the VPN connections simultaneously.

D. Create a transit gateway. Attach the VPCs to the transit gateway. Create several additional Site-to-Site VPN connections that terminateon the transit gateway. Configure equal-cost multi-path (ECMP) routing to use all the VPN connections simultaneously.

Correct Answer: D

ECMP is not supported for Site-to-Site VPN connections on a virtual private gateway.

You can check this document: https://docs.aws.amazon.com/vpn/latest/s2svpn/VPNRoutingTypes.html

QUESTION 2

A company has deployed an application in which the front end of the application communicates with the backend instances through a Network Load Balancer (NLB) in the same VPC. The application is highly available across two Availability Zones. The company wants to limit the amount of traffic that travels across the Availability Zones. Traffic from the front end of the application must stay in the same Availability Zone unless there is no healthy target in that Availability Zone behind the NLB. If there is no healthy target in the same Availability Zone, traffic must be sent to the other Availability Zone.

Which solution will meet these requirements?

A. Create a private hosted zone with weighted routing for each Availability Zone. Point the primary record to the local Availability Zone NLB DNS record. Point the secondary record to the Regional NLB DNS record. Configure the front end of the application to perform DNS lookups on the local private hosted zone records.

B. Turn off cross-zone load balancing on the NLB. Configure the front end of the application to perform DNS lookups on the local Availability Zone NLB DNS record.

C. Create a private hosted zone. Create a failover record for each Availability Zone. For each failover record, point the primary record to the local Availability Zone NLB DNS record and point the secondary record to the Regional NLB DNS record. Configure the front end of the application to perform DNS lookups on the local private hosted zone records.

D. Enable sticky sessions (session affinity) so that the NLB can bind a user\\'s session to targets in the same Availability Zone.

Correct Answer: B

QUESTION 3

A company has a single VPC in the us-east-1 Region. The company is planning to set up a new VPC in the us-east-2 Region. The existing VPChas an AWS Site-to-Site VPN connection to the company\'s on-premises environment and uses a virtual private gateway.A network engineer needs to implement a solution to establish connectivity between the existing VPC and the new VPC. The solution alsomust implement support for IPv6 for the new VPC. The company has new on-premises resources that need to connect to VPC resources byusing IPv6 addresses.Which solution will meet these requirements?

A. Create a new virtual private gateway in us-east-1. Attach the new virtual private gateway to the new VPC. Create two new Site-to-SiteVPN connections to the new virtual private gateway with IPv4 and IPv6 support. Configure routing between the VPCs by using VPCpeering.

B. Create a transit gateway in us-east-1 and in us-east-2. Attach the existing VPC and the new VPC to each transit gateway. Create a newSite-to-Site VPN connection to each transit gateway with IPv4 and IPv6 support. Configure transit gateway peering. Configure routingbetween the VPCs and the on-premises environment.

C. Create a new virtual private gateway in us-east-2. Attach the new virtual private gateway to the new VPCreate two new Site-to-Site VPNconnections to the new virtual private gateway with IPv4 and IPv6 support. Configure routing between the VPCs by using VPC peering.

D. Create a transit gateway in us-east-1. Attach the existing VPC and the new VPC to the transit gateway. Create two new Site-to-Site VPNconnections to the transit gateway with IPv4 and IPv6 support. Configure transit gateway peering. Configure routing between the VPCsand the on-premises environment.

Correct Answer: B

Transit gateway attachment can only be in the same region as the TGW itself.

QUESTION 4

A company is planning a migration of its critical workloads from an on-premises data center to Amazon EC2 instances. The plan includes anew 10 Gbps AWS Direct Connect dedicated connection from the on-premises data center to a VPC that is attached to a transit gateway. Themigration must occur over encrypted paths between the on-premises data center and the AWS Cloud.Which solution will meet these requirements while providing the HIGHEST throughput?

A. Configure a public VIF on the Direct Connect connection. Configure an AWS Site-to-Site VPN connection to the transit gateway as a VPNattachment.

B. Configure a transit VIF on the Direct Connect connection. Configure an IPsec VPN connection to an EC2 instance that is running third-party VPN software.

C. Configure MACsec for the Direct Connect connection. Configure a transit VIF to a Direct Connect gateway that is associated with thetransit gateway.

D. Configure a public VIF on the Direct Connect connection. Configure two AWS Site-to-Site VPN connections to the transit gateway. Enableequal-cost multi-path (ECMP) routing.

Correct Answer: C

https://docs.aws.amazon.com/directconnect/latest/UserGuide/MACsec.html

QUESTION 5

A company is developing an application in which IoT devices will report measurements to the AWS Cloud. The application will have millions ofend users. The company observes that the IoT devices cannot support DNS resolution. The company needs to implement an Amazon EC2 AutoScaling solution so that the IoT devices can connect to an application endpoint without using DNS.Which solution will meet these requirements MOST cost-effectively?

A. Use an Application Load Balancer (ALB)-type target group for a Network Load Balancer (NLB). Create an EC2 Auto Scaling group. Attachthe Auto Scaling group to the ALB. Set up the IoT devices to connect to the IP addresses of the NLB.

B. Use an AWS Global Accelerator accelerator with an Application Load Balancer (ALB) endpoint. Create an EC2 Auto Scaling group. Attachthe Auto Scaling group to the ALSet up the IoT devices to connect to the IP addresses of the accelerator.

C. Use a Network Load Balancer (NLB). Create an EC2 Auto Scaling group. Attach the Auto Scaling group to the NLB. Set up the IoTdevices to connect to the IP addresses of the NLB.

D. Use an AWS Global Accelerator accelerator with a Network Load Balancer (NLB) endpoint. Create an EC2 Auto Scaling group. Attach theAuto Scaling group to the NLB. Set up the IoT devices to connect to the IP addresses of the accelerator.

Correct Answer: C

B, C, and D are also doable.

Let\\'s think about the cost.

AWS Global Accelerator is definitely the best option. but it costs more money.

NLB is enough.

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