ANS-C01 Q&As

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QUESTION 1

A network engineer is designing a hybrid networking environment that will connect a company\\'s corporate network to the company\\'s AWSenvironment. The AWS environment consists of 30 VPCs in 3 AWS Regions.The network engineer needs to implement a solution to centrally filter traffic by using a firewall that the company\\'s security team hasapproved. The solution must give all the VPCs the ability to connect to each other. Connectivity between AWS and the corporate network mustmeet a minimum bandwidth requirement of 2 Gbps.Which solution will meet these requirements?

A. Deploy an IPsec VPN connection between the corporate network and a new transit gateway. Connect all VPCs to the transit gateway.Associate the approved firewall with the transit gateway.

B. Deploy a single 10 Gbps AWS Direct Connect connection between the corporate network and virtual private gateway of each VPC.Connect the virtual private gateways to a Direct Connect gateway. Build an IPsec tunnel to a new transit VPC. Deploy the approved firewallto the transit VPC.

C. Deploy two 1 Gbps AWS Direct Connect connections in different Direct Connect locations to connect to the corporate network. Build atransit VIF on each connection to a Direct Connect gateway. Associate the Direct Connect gateway with a new transit gateway for eachRegion. Configure the VIFs to use equal-cost multipath (ECMP) routing. Connect all the VPCs in the three Regions to the transit gateway.Configure the transit gateway route table to route traffic to an inspection VPDeploy the approved firewall to the inspection VPC.

D. Deploy four 1 Gbps AWS Direct Connect connections in different Direct Connect locations to connect to the corporate network. Build atransit VIF on each connection to a Direct Connect gateway. Associate the Direct Connect gateway with a new transit gateway for eachRegion. Connect the transit gateways by using a transit gateway peering attachment. Configure the VIFs to use equal-cost multipath(ECMP) routing. Configure transit gateway route tables to route traffic to an inspection VPC. Deploy the approved firewall to the inspectionVPC.

Correct Answer: D

This solution meets the requirements because:

?It uses AWS Direct Connect, which provides a dedicated and private connection between the corporate network and AWS, with a minimum bandwidth of 2 Gbps (4 x 1 Gbps).

?It uses a Direct Connect gateway, which allows multiple VPCs in different Regions to share the same Direct Connect connection.

?It uses a transit gateway, which acts as a network hub that connects multiple VPCs and other networks, such as the corporate network and the inspection VPC.

?It uses a transit gateway peering attachment, which enables routing between transit gateways in different Regions.

?It uses ECMP routing, which allows traffic to be distributed across multiple paths for higher throughput and redundancy.

?It uses an inspection VPC, which hosts the approved firewall and filters traffic between the corporate network and the AWS environment.

QUESTION 2

A company\\'s security guidelines state that all outbound traffic from a VPC to the company\\'s on-premises data center must pass through asecurity appliance. The security appliance runs on an Amazon EC2 instance. A network engineer

needs to improve the network performancebetween 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

QUESTION 3

Company A recently acquired Company B. Company A has a hybrid AWS and on-premises environment that uses a hosted AWS Direct Connect connection, a Direct Connect gateway, and a transit gateway. Company A has a transit VIF to access the resources in its production environment in the us-east-1 Region.

Company B has applications that run across multiple VPCs in the us-west-2 Region in a single AWS account. A transit gateway connects all Company B\\'s application VPCs. The CIDR blocks for both companies do not overlap.

Company A needs to use the existing Direct Connect connection to access Company B\\'s applications from the on-premises environment.

Which solution will meet these requirements?

A. Create a new Direct Connect gateway in the Company B account. Associate the Company B transit gateway with the new Direct Connect gateway. Create a transit VIF on the existing hosted connection for Company B.

B. Create an association proposal from the Company B account to associate the Company B transit gateway with the Company A Direct Connect gateway. Accept the transit gateway association proposal by logging into the Company A account.

C. Create multiple virtual private gateways. Attach the virtual private gateways to each of Company B\\'s application VPCs. Create a hosted private VIF for each virtual private gateway.

D. Create a new Direct Connect gateway in the Company B account. Associate the Company B transit gateway with the new Direct Connect gateway. Create a hosted private VIF for Company B.

Correct Answer: B

QUESTION 4

A company has two on-premises data centers. The first data center is in the us-east-1 Region. The Second data canter is in the us-east-2 Region. Each data center connects to the closest AWS Direct Connect facility. The company uses Direct Connect connections, transit VIFs, and a single Direct Connect gateway to establish connectivity to VPCs in us-east-1 and us-east-2 from the company\\'s data centers. The company also has private connectivity from a telecommunications provider that connects the first data center to the second data center.

Recently, there have been multiple connection disruptions to the private connectivity between the data centers. The company needs a solution to improve the reliability of the connection between the two data centers.

Which solution will meet these requirements?

A. Create a new Direct Connect gateway. Enable the Direct Connect SiteLink feature on the transit VIF. Share the CIDR blocks from the first data center and the second data center with each other.

B. Create a new public VIF to both Regions. Enable the Direct Connect SiteLink feature on the new public VIF.

C. Enable the Direct Connect SiteLink feature on the existing Direct Connect connections.

D. Enable the Direct Connect SiteLink feature on the existing transit VIFS that are attached to the existing Direct Connect gateway.

Correct Answer: B

QUESTION 5

A company has critical VPC workloads that connect to an on-premises data center through two redundant active-passive AWS Direct Connectconnections. However, a recent outage on one Direct Connect connection revealed that it takes more than a minute for traffic to fail over tothe secondary Direct Connect connection. The company wants to reduce the failover time from minutes to seconds.Which solution will provide the LARGEST reduction in the BGP failover time?

A. Reduce the BGP hold-down timer that is configured on the BGP sessions on the Direct Connect connection VIFs.

B. Configure an Amazon CloudWatch alarm for the Direct Connect connection state to invoke an AWS Lambda function to fail over thetraffic.

C. Configure Bidirectional Forwarding Detection (BFD) on the Direct Connect connections on the AWS side.

D. Configure Bidirectional Forwarding Detection (BFD) on the Direct Connect connections on the on-premises router.

Correct Answer: D

Asynchronous BFD is automatically turned on for all AWS Direct Connect interfaces on the AWS side. You can\\'t configure BFD settings on the AWS side. When creating a BFD session, the BFD protocol always selects the longer and slower timer.