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QUESTION 1

You are managing a VPC with 4 AZs. There is a load balancer managing the public accessibility to your servers. You have a secondary ENI with a private IPv4 address on an instance that is serving public web traffic. Your server communicates over private addresses to a database in another subnet. Security is a major concern for your company and whitelisting is in effect.

You have to bring the web server down for maintenance, what two things should you do? (Choose two.)

- A. Reboot the instance.
- B. Move the ENI from one server to the other.
- C. Associate the new ENI with the database security group.
- D. Configure a secondary ENI on the standby instance.

Correct Answer: CD

Explanation:

You must configure a secondary ENI on the standby instance with an IP address that can access the data subnet. This may require modification of the security group for the database.

QUESTION 2

Your company has two DX locations. You need to configure one link as passive. What should you configure in your router to set that link as the passive link.

- A. Set a higher MED.
- B. Configure AS_PATH Prepending on the link.
- C. Advertise a network with a higher CIDR.
- D. Call your service provider and have the ASN changed for that link.

Correct Answer: B

Explanation: You should configure AS_PATH prepending on the link. A higher CIDR is the same as a more specific prefix, which will make the link more preferred. A higher MED will make the path less preferred, but this is not the preferred method to accomplish this. Changing your ASN will not help. Configuring AS_PATH Prepending is the preferred method of AWS to configure an Active-Passive configuration with Direct Connect.

QUESTION 3

An organization has multiple applications running in VPCs across multiple AWS accounts. The network engineer has deployed a central VPC with a pair of software VPN instances that run IPSec tunnels with dynamic routing to VGWs of all application VPCs. This central VPC is connected to on-premises resources via a Direct Connect connection using a private VIF.



What additional configuration is required to enable the applications in VPCs to communicate with each other and access on-premises resources?

- A. Configure each application VPC with a static route entry pointing the on-premises CIDR block to the software VPN instances.
- B. Configure the central VPC with a static route entry pointing the on-premises CIDR block to local VGWs.
- C. Advertise all application VPC CIDR blocks to on-premises resources via the VGW in the central VPC.
- D. Configure IPsec tunnels from the on-premises router into the software VPN instances with dynamic routing.

Correct Answer: B

QUESTION 4

Your company has a highly available Direct Connect solution that utilizes two datacenters. Each data center contains one two-connection LAG and one standard DX connection. How many LOAs will be filled out in total if your company completes an order to add a new connection to each one of the LAGs?

- A. 1
- B. 11
- C. 2
- D. 6

Correct Answer: D

Explanation:

Four LOAs are required for the first order and two more for the second.

QUESTION 5

To connect to public AWS products such as Amazon EC2 and Amazon S3 through the AWS Direct Link, which step is NOT required?

- A. Provide public IP address (/31) for each Border Gateway Protocol (BGP) session.
- B. Allocate a Private IP address to your network in 172.x.x.x range.
- C. Provide the public routes that you will advertise over Border Gateway Protocol (BGP).
- D. Provide a public Autonomous System Number (ASN) that you own or a private one to identify your network on the Internet.

Correct Answer: B

Explanation: To connect to public AWS products such as Amazon EC2 and Amazon S3 through the AWS Direct



Connect, you need to provide the following: A public Autonomous System Number (ASN) that you own (preferred) or a private ASN. Public IP addresses (/30) (that is, one for each end of the BGP session) for each BGP session. The public routes that you will advertise over BGP.

Reference: <http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html>

QUESTION 6

A company has two on-premises data center locations. There is a company-managed router at each data center. Each data center has a dedicated AWS Direct Connect connection to a Direct Connect gateway through a private virtual interface. The router for the first location is advertising 110 routes to the Direct Connect gateway by using BGP and the router for the second location is advertising 60 routes to the Direct Connect gateway by using BGP. The Direct Connect gateway is attached to a company VPC through a virtual private gateway.

A network engineer receives reports that resources in the VPC are not reachable from various locations in either data center. The network engineer checks the VPC route table and sees that the routes from the first data center location are not being populated into the route table. The network engineer must resolve this issue in the most operationally efficient manner.

What should the network engineer do to meet these requirements?

- A. Remove the Direct Connect gateway, and create a new private virtual interface from each company router to the virtual private gateway of the VPC.
- B. Change the router configurations to summarize the advertised routes.
- C. Open a support ticket to increase the quota on advertised routes to the VPC route table.
- D. Create an AWS Transit Gateway. Attach the transit gateway to the VPC and connect the Direct Connect gateway to the transit gateway.

Correct Answer: D

QUESTION 7

An organization with a growing e-commerce presence uses the AWS CloudHSM to offload the SSL/TLS processing of its web server fleet. The company leverages Amazon EC2 Auto Scaling for web servers to handle the growth. What architectural approach is optimal to scale the encryption operation?

- A. Use multiple CloudHSM instances, and load balance them using a Network Load Balancer.
- B. Use multiple CloudHSM instances to the cluster; request to it will automatically load balance.
- C. Enable Auto Scaling on the CloudHSM instance, with similar configuration to the web tier Auto Scaling group.
- D. Use multiple CloudHSM instances, and load balance them using an Application Load Balancer.

Correct Answer: A



QUESTION 8

What is the IPv6 subnet CIDR used by a VPC?

- A. /128
- B. /56
- C. /48
- D. /16

Correct Answer: B

Explanation:

A VPC will always use /56 as its CIDR

QUESTION 9

You have just peered two VPCs, and you need to improve performance for instances you plan on deploying. What are two steps you would take to do this? (Choose two.)

- A. Create two subnets in the same AZ and create a placement group.
- B. Set the MTU of your instances to 1500.
- C. Create two subnets in different AZs and create a placement group.
- D. Ensure you choose instances that use enhanced networking.

Correct Answer: AD

Explanation:

A placement group can only be deployed in the same AZ and is only useful with enhanced networking instances.

QUESTION 10

Which ports must you allow for HTTP and HTTPS traffic?

- A. 25/465
- B. 21/22
- C. 3389/3306
- D. 80/443

Correct Answer: D



Explanation:

80 and 443 are the ports for HTTP and HTTPS, respectively.

QUESTION 11

You are designing an AWS Direct Connect solution into your VPC. You need to consider requirements for the customer router to terminate the Direct Connect link at the Direct Connect location.

Which three factors that must be supported should you consider when choosing the customer router?

(Choose three.)

- A. 802.1Q VLAN encapsulation
- B. 802.1ax or 802.3ad link aggregation
- C. OSPF
- D. BGP
- E. single-mode optical fiber connectivity
- F. 1-Gbps copper connectivity

Correct Answer: ADE

QUESTION 12

You have deployed a website that utilizes CloudFront, Elastic Loadbalancer, and S3 to serve content. When users access your site, they receive a "mixed content" security warning.

What is most likely the problem?

- A. There is no rule in your bucket policy allowing public access.
- B. You have applied your SSL to your Elastic Loadbalancer but not your CDN.
- C. Your S3 Bucket permissions are incorrect.
- D. You are using an SSL from an external CA.

Correct Answer: B

Explanation:

You must apply the SSL to your Elastic Loadblanacer and your CDN to encrypt all aspects of your site.

**QUESTION 13**

A company recently migrated its Amazon EC2 instances to VPC private subnets to satisfy a security compliance requirement. The EC2 instances now use a NAT gateway for internet access. After the migration, some long-running database queries from private EC2 instances to a publicly accessible third-party database no longer receive responses. The database query logs reveal that the queries successfully completed after 7 minutes but that the client EC2 instances never received the response.

Which configuration change should a network engineer implement to resolve this issue?

- A. Configure the NAT gateway timeout to allow connections for up to 600 seconds
- B. Enable enhanced networking on the client EC2 instances
- C. Enable TCP keepalive on the client EC2 instances with a value of less than 300 seconds
- D. Close idle TCP connections through the NAT gateway

Correct Answer: B

QUESTION 14

True or false: A VPC contains multiple subnets, where each subnet can span multiple Availability Zones.

- A. This is true only for US regions.
- B. This is false.
- C. This is true.
- D. This is true only if requested during the set-up of VPC.

Correct Answer: B

Explanation:

A VPC can span several Availability Zones. In contrast, a subnet must reside within a single Availability Zone.

Reference: <https://aws.amazon.com/vpc/faqs/>

QUESTION 15

Your company currently has a LAG to AWS with two 1Gbps connections. What is the best way to increase throughput on this LAG?

- A. Add three 1Gbps connections to the LAG.
- B. Add one 10Gbps connections to the LAG.
- C. Configure your router to use "jumbo frames" with an MTU of 9001.



D. Add two 1Gbps connections to the LAG.

Correct Answer: D

Explanation:

Add two 1Gbps connections to the LAG. DX does not support jumbo frames, a LAG only supports 4 connections, and adding a 10Gbps connection will be limited to the lowest speed of 1Gbps.

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