ANS-C00 Q&As

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QUESTION 1

Which of the following physical layer standards is required for connection to AWS Direct Connect over a standard 1 gigabit or 10 gigabit Ethernet fiber-optic cable?

A. Single mode fiber, 1000BASE-LX for 1 gigabit Ethernet, or 10GBASE-ER for 10 gigabit Ethernet

B. Multi mode fiber, 1000BASE-LX for 1 gigabit Ethernet, or 10GBASE-ER for 10 gigabit Ethernet

C. Single mode fiber, 1000BASE-LX for 1 gigabit Ethernet, or 10GBASE-LR for 10 gigabit Ethernet

D. Multi mode fiber, 1000BASE-SX for 1 gigabit Ethernet, or 10GBASE-SR for 10 gigabit Ethernet

Correct Answer: C

Explanation:

Connections to AWS Direct Connect require single mode fiber, 1000BASE-LX (1310nm) for 1 gigabit

Ethernet, or 10GBASE-LR (1310nm) for 10 gigabit Ethernet.

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

QUESTION 2

Your company was recently acquired and a Direct Connection connection was extended from your new parent corporation to your AWS VPC using a hosted VIF. What data charges are billed to your account for that connection?

A. You are only responsible for the port hours of the VIF.

B. You are not charged anything.

C. You are responsible for all data transfer out.

D. You are responsible for all data transfer in.

Correct Answer: C

Explanation:

You are only responsible for the data transfer out. The port hours are the responsibility of the owner of the

connection.

QUESTION 3

A company is deploying a new web application that uses a three-tier model with a public-facing Network Load Balancer and web servers in an Amazon VPC. The application servers are hosted in the company\\'s data center. There is an AWS Direct Connect connection between the VPC and the company\\'s data center. Load testing results indicate that up to 100 servers, equally distributed across multiple Availability Zones, are required to handle peak loads.

The Network Engineer needs to design a VPC that has a /24 CIDR assigned to it.

How should the Engineer allocate subnets across three Availability Zones for each tier?

A. Network Load Balancer: /29 per subnet Web: /26 per subnet

B. Network Load Balancer: /28 per subnet Web: /25 per subnet

C. Network Load Balancer: /28 per subnet Web: /27 per subnet

D. Network Load Balancer: /28 per subnet Web: /26 per subnet

Correct Answer: D

QUESTION 4

A space exploration company owns a series of telescopes that capture a large number of images and data of the night sky. The images and data are processed on an application hosted on AWS Fargate in a target group assigned to an Application Load Balancer (ALB). The application is made available through the address https://space.example.com.

Scientists require another custom-built application hosted on several Amazon EC2 instances within an Auto Scaling group. This application will be made available from the address https://space.example.com/ meteor. The company needs a solution that can automatically scale from a small number of requests overnight to a large number of requests for a future meteor shower.

What is the MOST operationally efficient solution that meets these requirements?

A. Update the existing target group with the new EC2 instances. Update the application\\'s ALB by adding a listener rule that redirects /meteor to the newly added EC2 instances.

B. Create a new target group. Configure the Auto Scaling group of the EC2 instances to use the target group. Update the ALB by adding a listener rule that redirects /meteor to the new target group.

C. Create a Network Load Balancer (NLB). Configure the NLB to listen on two ports. Configure a target group for one port to deliver all IP traffic to the Auto Scaling group to process the custom images. Configure a target group for the second port to deliver all IP traffic to Fargate. Use path-based routing in the ALB to route traffic for the URL prefix /meteor to the first target group. Route all other paths to the second target group.

D. Place the ALB behind an Amazon CloudFront distribution. Create a Lambda@Edge function that parses the request URI and adds the path-pattern header with the IP addresses of the EC2 instances to any request for /meteor. Add a listener rule to the ALB that looks for the HTTP header and uses the IP addresses of the EC2 instances to forward the traffic.

Correct Answer: C

QUESTION 5

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