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QUESTION 1

You are your company's AWS cloud architect. You have created a VPC topology that consists of 3 VPCs. You have a centralised VPC (VPC-Shared) that provides shared services to the remaining 2 departmental dedicated VPCs (VPC-Dept1 and VPC-Dept2). The centralised VPC is VPC peered to both of the departmental VPCs, that is a VPC peering connection exists between VPC-Shared and VPC-Dept1, and a VPC peering connection exists between VPC-Shared and VPC-Dept2.

Select the correct option from the list below.

- A. Network traffic is possible between VPC-Shared instances and VPC-Dept1 and VPC-Dept2 instances as long as the appropriate routes and security groups are in place, but only for communication that is initiated from VPC1-Shared instances as the default peering bi-directional communication flag has been disabled.
- B. Instances within VPC-Dept1 can communicate directly with instances in VPC-Shared, as long as the appropriate routes and security groups are in place, and vice versa regardless of who initiates communication
- C. All network communication remains blocked between all VPCs until the respective peering bidirectional communication flags are set to the appropriate setting that allows traffic to flow.
- D. Network traffic is possible between VPC-Shared instances and VPC-Dept1 and VPC-Dept2 instances as long as the appropriate routes and security groups are in place, but only for communication that is initiated from VPC1-Shared instances as the default peering bi-directional communication flag has been enabled.

Correct Answer: B

Explanation:

Answers A, C and D are incorrect answers as they reference a non-existing setting - there is no such thing as a "default peering bi-directional communication flag".

Reference: <http://docs.aws.amazon.com/AmazonVPC/latest/PeeringGuide/peering-configurations-partialaccess.html#one-to-two-vpcs-instances>

QUESTION 2

Convert the following IPv4 address in presented in binary form, into dotted decimal form
10101100.01111011.00001101.10011101.

- A. 172.123.13.157
- B. 173.13.13.157
- C. 172.122.13.15
- D. 172.124.13.57

Correct Answer: A

Explanation:

An IPv4 address in dotted decimal format is constructed using binary arithmetic. In binary arithmetic, each



bit within a group represents a power of two. Specifically, the first bit in a group represents 2 to the power of 0, the second bit represents 2 to the power of 1, the third bit represents 2 to the power of 2, and so on.

Binary format is simple because each successive bit in a group is exactly twice the value of the previous bit.

The first octet is $128 + 32 + 8 + 4 = 172$

The second octet $64 + 32 + 16 + 8 + 2 + 1 = 123$

The third octet $8 + 4 + 1 = 13$

The fourth octet is $128 + 16 + 8 + 4 + 1 = 157$

Reference: <https://en.wikipedia.org/wiki/IPv4>

QUESTION 3

What port and protocol is used by DNS?

- A. 80/TCP
- B. 22/TCP
- C. 80/TCP and UDP
- D. 53/TCP and UDP

Correct Answer: D

Explanation:

DNS uses port 53 and either TCP or UDP depending on what type of DNS message is being sent.

QUESTION 4

A customer has set up multiple VPCs for Dev, Test, Prod, and Management. You need to set up AWS Direct Connect to enable data flow from on-premises to each VPC. The customer has monitoring software running in the Management VPC that collects metrics from the instances in all the other VPCs. Due to budget requirements, data transfer charges should be kept at minimum.

Which design should be recommended?

- A. Create a total of four private VIFs, one for each VPC owned by the customer, and route traffic between VPCs using the Direct Connect link.
- B. Create a private VIF to the Management VPC, and peer this VPC to all other VPCs.
- C. Create a private VIF to the Management VPC, and peer this VPC to all other VPCs; enable source/ destination NAT in the Management VPC.



D. Create a total of four private VIFs, and enable VPC peering between all VPCs.

Correct Answer: D

QUESTION 5

Your company has decided to deploy AWS WorkSpaces for its hosted desktop solution. Your manager is very concerned with security and cost, as well as reliability.

What two things should be deployed? (Choose two.)

- A. VPN
- B. AWS Hosted AD
- C. Direct Connect
- D. AD Connector

Correct Answer: CD

Explanation:

A VPN should be deployed over Direct Connect to ensure the traffic is encrypted. You would use an AD Connector here since it doesn't cache any credentials in the cloud. AWS Hosted AD is more expensive and caches credentials.

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