



Cisco 350-501

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

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Cisco 350-501 SPCOR

Implementing and Operating Cisco Service Provider Network Core Technologies

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Question 1

Egress PE NAT is being used via a single centralized router to provide Internet access to L3VPN customers. Which description of the NAT operation is true?

- A. Users in different VRFs cannot share the same outside global IP address.
- B. The NAT table contains a field to identify the inside VRF of a translation.**
- C. Multiple address pools are needed for the same L3VPN because each site has a separate NAT.
- D. The different L3VPNs using the Internet access must not have IP overlaps internally.

Answer: B

Explanation:

When performing NAT for L3VPN customers on an Egress PE router, the NAT translation table maintains VRF-awareness by tracking the inside VRF associated with each IP translation, allowing overlapping customer IP address spaces to safely share outside addresses.

Question 2

How much must the MTU be increased when configuring the 802.1q VLAN tag?

- A. 2 bytes
- B. 4 bytes**
- C. 8 bytes
- D. 12 bytes

Answer: B

Explanation:

An 802.1Q header adds 4 bytes to an Ethernet frame header (2 bytes for Tag Protocol Identifier and 2 bytes for Tag Control Information). Thus, the MTU must be increased by 4 bytes to accommodate tagged frames without fragmentation.

Question 3

Refer to the exhibit:

```
ip flow-export source loopback 0 ip flow-export destination 192.168.1.1 ip flow-export version 9
```

Export statistics received do not include the BGP next hop.

Which statement about the NetFlow export statistics is true?

- A. Only the origin AS of the source router will be included in the export statistics.
- B. Loopback 0 must be participating in BGP for it to be included in the export statistics.
- C. The origin AS and the peer-as will be included in the export statistics.
- D. To include the BGP next hop in the export statistics, those keywords must be included with the version 9 entry.**

Answer: D

Explanation:

By default, `ip flow-export version 9 origin-as` configures NetFlow version 9 to export origin Autonomous System data. To collect additional BGP routing fields such as the BGP next hop, specific keywords (such as `bgp-nexthop`) must explicitly be appended to the export configuration.

Question 4

Refer to the exhibit configuration and BGP status on router PE-A:

```
PE-A# show ip bgp vpnv4 vrf Customer-A neighbors 10.10.10.2 routes BGP table version is 131480
```

Which three outcomes occur if the prefix list is added to the neighbor? (Choose three)

A. 192.168.0.0/19 is denied.

B. 192.168.0.0/17 is denied.

C. 192.168.0.0/17 is permitted.

D. 192.168.0.0/16 is denied.

E. 192.168.0.0/16 is permitted.

F. 192.168.0.0/19 is permitted.

Answer: C, D, F

Explanation:

The prefix-list `ALLOW` matches prefixes within `192.168.0.0/16` that have prefix lengths greater than or equal to 17 and less than or equal to 19 (`ge 17 le 19`). Therefore, `/17` and `/19` prefixes are permitted (C & F), while the exact `/16` prefix fails the `ge 17` length constraint and is denied (D).

Question 5

Which statement about segment routing prefix segments is true?

A. It is linked to a prefix SID that is globally unique within segment routing domain.

B. It is the longest path to a node.

C. It is linked to an adjacency SID that is globally unique within the router.

D. It requires using EIGRP to operate.

Answer: A

Explanation:

A Prefix Segment (Prefix-SID) in Segment Routing identifies a destination network prefix. Prefix-SIDs are globally unique within the entire Segment Routing domain and are allocated from the Segment Routing Global Block (SRGB).

Practice Assessment Completed

Overview of topics covered in this practice exam sample.

Question	Domain Keyword	Key Technical Concept
Question 1	L3VPN Egress PE NAT	VRF field identification in NAT table
Question 2	802.1Q Tagging	4-byte MTU header overhead
Question 3	NetFlow v9 Export	Explicit BGP next hop export keywords
Question 4	BGP Prefix Filtering	Prefix-list range constraints (`ge` / `le`)
Question 5	Segment Routing	Globally unique Prefix-SIDs within SR domain

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