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Huawei HCIP-Datacom-Advanced Routing & Switching Technology V1.0 Sample Questions (Q83-Q88):

NEW QUESTION # 83

In the hub-spoke networking shown in the figure, which of the following commands must be configured on the Hub-PE to ensure correct route transmission?

- A. [Hub-PE-bgp-VPN_in] peer x.x.x.x soo 200:1
- B. [Hub-PE-bgp-VPN_in] peer x.x.x.x allow-as-loop
- C. [Hub-PE-bgp-VPN_out] peer x.x.x.x soo 200:1
- D. [Hub-PE-bgp-VPN_out] peer x.x.x.x allow-as-loop

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation:

1. Understanding the Hub-Spoke Network Model in MPLS VPN

* Hub-Spoke (or Route Reflector) topology is used in MPLS Layer 3 VPNs where multiple spoke sites communicate through a central hub.

* The Hub-PE acts as an intermediate BGP speaker and redistributes routes between spokes.

* The challenge is preventing routing loops when exchanging routes between spokes.

2. Understanding the Role of Site of Origin (SoO) in BGP/MPLS VPNs

* BGP Site of Origin (SoO) is a route attribute used to prevent routing loops in scenarios where a hub redistributes routes between spokes.

* If a route originating from a spoke is advertised back to the same site, SoO prevents it from being re-learned.

* The SoO value (e.g., 200:1) ensures that a site does not accept its own previously advertised prefixes.

3. Analyzing the Answer Choices

A. [Hub-PE-bgp-VPN_out] peer x.x.x.x allow-as-loop (Incorrect)

* The allow-as-loop command allows BGP to accept routes with its own AS number in the AS path.

* This is NOT needed in a Hub-Spoke VPN because BGP routes are not being looped through the same AS.

This is unnecessary for preventing loops in a Hub-Spoke VPN.

B. [Hub-PE-bgp-VPN_in] peer x.x.x.x allow-as-loop (Incorrect)

* Again, allow-as-loop is used when a router needs to accept its own AS number in the BGP AS path.

* This is NOT the mechanism used for preventing loops in Hub-Spoke VPNs; SoO is used instead.

This is not required in this scenario.

C. [Hub-PE-bgp-VPN_in] peer x.x.x.x soo 200:1 (Correct Answer)

* The correct way to prevent spoke routes from looping through the hub is to apply the Site of Origin (SoO) attribute.

* This command ensures that if a route with SoO 200:1 is received, it is not advertised back to the same spoke.

This is the correct answer.

D. [Hub-PE-bgp-VPN_out] peer x.x.x.x soo 200:1 (Incorrect)

* Applying SoO on outgoing routes is NOT effective because the hub should mark received routes and prevent loops when re-advertising them.

* SoO should be applied on the inbound (received) routes at the Hub-PE, not outbound.

This is not the correct implementation of SoO.

Final Conclusion:

Correct answer: C. [Hub-PE-bgp-VPN_in] peer x.x.x.x soo 200:1# A. allow-as-loop is unnecessary in a Hub-Spoke MPLS VPN.# B. allow-as-loop is not relevant here.# D. SoO should be applied inbound, not outbound.

Thus, the correct answer is: C. [Hub-PE-bgp-VPN_in] peer x.x.x.x soo 200:1.

NEW QUESTION # 84

Part of the configuration of R1 is as follows, which of the following statement about OSPF on R1 is correct? (Multiple choice)

- A. The routing information of VRF tt will appear in the routing table of OSPF process 1
- B. The OSPF LSDBs of process 1 and process 2 have exactly the same LSA in area 0

- C. The routing information of VRF it will not appear in the routing table of OSPF process 1
- D. The OSPF LSD8 of process 1 and process 2 have different LSAs in the area

Answer: C,D

NEW QUESTION # 85

A message with a destination IP address of 4.4.4.4 forwarded by R1 is transmitted in an MPLS network. Part of the LSP information of R3 is shown in the figure. Which of the following devices will perform MPLS label operations during the transmission of the message? (Multiple choice)

- A. R3
- B. R1
- C. R4
- D. R2

Answer: A,B,D

NEW QUESTION # 86

In BGP4+, what is the content of the next hop network address field carried in the P_REA, CHLRI attribute in the Update packet?

- A. Can carry link-local addresses and global unicast addresses at the same time
- B. Can only be a global unicast address
- C. can just be a link-local address
- D. Only link-local addresses

Answer: A

NEW QUESTION # 87

From this picture, we can judge

- A. R1 The device type is Level-2
- B. R1 Routing domain authentication is set
- C. R1 Zone authentication is configured
- D. R1 The device type is Level-1

Answer: A

NEW QUESTION # 88

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