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Huawei HCIE-Datcom V1.0 Sample Questions (Q216-Q221):

NEW QUESTION # 216

The naming of SRv6 instructions complies with certain rules. You can quickly determine the function of an instruction based on the instruction name. Which of the following statements about the keywords in SRv6 instruction names are correct?

- A. T: searches a specified routing table to forward packets.
- B. M: searches a Layer 2 forwarding table for unicast forwarding.
- C. V: searches a VPN instance routing table to forward packets.
- D. X: forwards packets through one or a group of specified Layer 3 interfaces.

Answer: A,C,D

Explanation:

SRv6 Instruction Naming Conventions

SRv6 (Segment Routing over IPv6) uses segment identifiers (SIDs) with specific functions, indicated by instruction keywords:

A. T: Searches a specified routing table to forward packets.

- * T (Table Lookup) # Performs a lookup in a specified routing table and forwards packets accordingly.
- # B. M: Searches a Layer 2 forwarding table for unicast forwarding.
- * Incorrect! SRv6 does not use M for Layer 2 unicast forwarding.
- # C. V: Searches a VPN instance routing table to forward packets.
- * V (VPN Routing Table Lookup) # Performs a lookup in a VPN instance (VRF) table for forwarding.
- # D. X: Forwards packets through one or a group of specified Layer 3 interfaces.
- * X (Cross-connect forwarding) # Forwards packets via a specified Layer 3 interface or group of interfaces.

Reference from Huawei HCIE-Datcom Documentation:

- * Huawei SRv6 Configuration Guide - SRv6 SID Naming and Instruction Set
- * HCIE-Datcom Study Material - Segment Routing over IPv6 (SRv6) Functionality

NEW QUESTION # 217

The MAC address of a PC is 5489-98FB-65D8 The administrator wants this PC to get the specified P address 1921681.11/24 from the DHCP server So the administrator-configured command should be,

- A. dhcp static-bind ip address 1921681.11 24 mac- address 5489-98FB-65D8
- B. dhcp static-bind ip address 1921681.11 mac- address 5489-98FB-65D8
- C. dhcp server static -bind ip address 1921681.112552552550 mac-address 5489-98FB-65D8
- **D. dhcp server static-bind ip-address 1921681. 11 mac- address 5489-98FB-65D8**

Answer: D

NEW QUESTION # 218

As shown in the figure, what is known about the default routes on R4?

Routing Table on R4:

<R4>display ip routing-table protocol isis

Destination/Mask Proto Pre Cost Flags NextHop Interface

0.0.0.0/0 ISIS-L1 15 10 D 10.1.24.1 GigabitEthernet0/0/1

ISIS-L1 15 10 D 10.1.34.1 GigabitEthernet0/0/0

172.16.1.2/32 ISIS-L1 15 10 D 10.1.24.1 GigabitEthernet0/0/1

172.16.1.3/32 ISIS-L1 15 10 D 10.1.34.1 GigabitEthernet0/0/0

- **A. Two equal-cost default routes**
- B. One default route
- C. Four equal-cost default routes
- D. Two default routes with different costs

Answer: A

Explanation:

Understanding the Routing Table Entries on R4

- * 0.0.0.0/0 (Default Route) is installed twice in the routing table.
- * The NextHop values for the default route:
- * 10.1.24.1 (GigabitEthernet0/0/1)
- * 10.1.34.1 (GigabitEthernet0/0/0)
- * Cost: Both routes have a metric (Cost) of 10, meaning they are equal-cost routes.
- * Protocol: ISIS-L1 (Intermediate System to Intermediate System - Level 1) confirms these routes are coming from IS-IS routing.
- * Flags: D (Dynamic) means these routes were dynamically learned via IS-IS.

Why is Option D Correct?

- * Since both routes have the same cost (10), they are considered equal-cost default routes.
- * The router will use both routes in a load-sharing fashion.
- * The answer is NOT A (Four equal-cost routes) because there are only two default routes, not four.
- * The answer is NOT B (One default route) because there are two default routes in the table.
- * The answer is NOT C (Two default routes with different costs) because both routes have the same cost (10).

Real-World Application

- * Equal-Cost Multi-Path (ECMP): The router can perform load balancing across the two equal-cost paths.
- * Resilience & Redundancy: If one link fails, the other can take over without re-calculating the entire routing table.
- # Reference: Huawei HCIE-Datcom Study Guide - IS-IS Routing & ECMP Load Balancing

NEW QUESTION # 219

What are the following techniques for improving MPLS BGP VPN reliability?(Multiple choice question)

- A. VPN GR Private IP routing between
- B. PE-CE FRR
- C. dual home networking is configured at the access layer
- D. VPN FRR

Answer: A,B,C,D

NEW QUESTION # 220

Which of the following fields is added to BGP4+ Update packets to advertise IPv6 routes?

- A. A new path attribute: MP_REACH_NLRI
- B. A new path attribute: IPv6_REACH_NLRI
- C. A new NLRI type: IPv6_NLRI, which carries the IPv6 NLRI prefix length and IPv6 NLRI prefix.
- D. A new path attribute: MP_UNREACH_NLRI

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation:

BGP4+ (BGP for IPv6) uses theMP_REACH_NLRI(Multiprotocol Reachable Network Layer Reachability Information) attribute to advertise IPv6 routes. This attribute is part of BGP's multiprotocol extensions (RFC 2858), allowing BGP to support multiple address families, including IPv6.

MP_REACH_NLRI:Advertises reachable IPv6 prefixes along with next-hop information.

MP_UNREACH_NLRI:Used to withdraw previously advertised IPv6 routes.

Since IPv6 addresses are significantly different from IPv4 addresses in structure and length (128 bits), the traditional BGP update message format (which supports only IPv4) is insufficient.

TheMP_REACH_NLRIattribute solves this by carrying IPv6-specific information.

NEW QUESTION # 221

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