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Huawei HCIE-Datacom V1.0 Sample Questions (Q248-Q253):

NEW QUESTION # 248

There is an existing router running OSPF HWL, HW1 interface serial0 is published in zone 1, configure commands under the OSPF process nssa default-route-advertise, based on the previous description, infers which of the following options are correct?

- A. HW1 injects a Type 7 default route into Zone 0
- **B. HW1 injects a type 7 default route into zone 1**
- C. When HW1 injects a default route into Zone 1, HW1's local route table can not contain a single default route
- D. HW1 injects a Type 3 default route into Zone 1
- **E. When HW1 injects a default route into zone 1, HW1's local route table needs to answer the default route**

Answer: B,E

NEW QUESTION # 249

When designing IGP routes for an enterprise bearer WAN, ensure that the metric of aggregation-layer links is smaller than that of access-layer links, so that data can be preferentially forwarded over aggregation-layer links.

- A. TRUE
- B. FALSE

Answer: A

Explanation:

IGP Metric Design in Enterprise WANs

In an enterprise bearer WAN, routing metrics determine path selection. The aggregation layer connects multiple access-layer devices to the core network, so it should have a lower metric to:

Ensure traffic is forwarded through higher-capacity aggregation links instead of lower-bandwidth access links.# Optimize traffic flow, reduce congestion, and improve network efficiency.# Enhance reliability by preferring more stable aggregation links.

IGP Routing Protocols Considerations:

* OSPF: Lower cost values indicate preferred paths.

* IS-IS: Lower link metrics result in preferred forwarding paths.

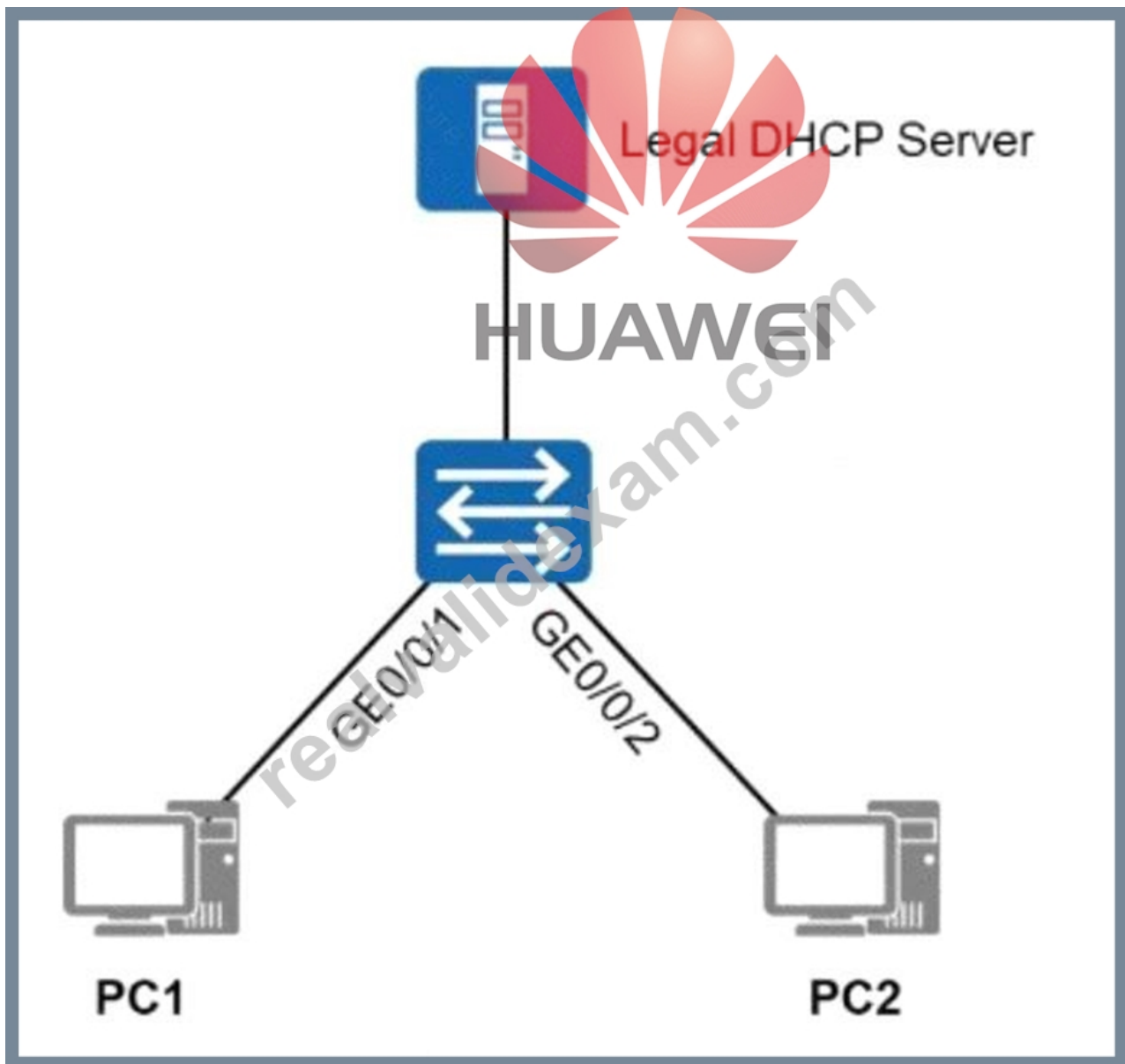
Reference from Huawei HCIE-Datacom Documentation:

* Huawei IGP Design Guide - Enterprise WAN Routing Optimization

* HCIE-Datacom Training Material - Metric Calculation and Path Selection in OSPF/IS-IS

NEW QUESTION # 250

To allow only authorized users (users who obtain IP addresses through authorized DHCP servers or use specified static IP addresses) to access the network shown in the figure, which of the following solutions can be used?



- A. DAI + Port Security
- B. DHCP Snooping + DAI
- C. DAI + IPSG
- D. DHCP Snooping + IPSG

Answer: D

Explanation:

Understanding Network Security for Authorized User Access

Problem Scenario:

- * Only authorized users should be allowed network access.
- * Users can obtain IP addresses either via DHCP or a predefined static IP list.
- * Unauthorized users (e.g., attackers using rogue DHCP servers or spoofed IPs) must be blocked.

Required Technologies for Securing Access:1## DHCP Snooping - Protects against rogue DHCP servers and builds a binding table of legitimate DHCP clients.2## IP Source Guard (IPSG) - Ensures that only authorized IP-MAC bindings can send traffic.

Analysis of the Answer Choices:

A. DAI + Port Security (Incorrect)

- * DAI (Dynamic ARP Inspection) prevents ARP spoofing but does not validate IP-MAC-DHCP bindings.
- * Port Security only limits MAC addresses per port but does not verify IP addresses.
- * Does NOT protect against unauthorized static IP users.

B. DHCP Snooping + IPSG (Correct)

- * DHCP Snooping:
 - * Prevents rogue DHCP servers from assigning unauthorized IPs.

- * Builds a DHCP binding table (IP-MAC-Port).
 - * IP Source Guard (IPSG):
 - * Blocks traffic from IPs not listed in the DHCP snooping binding table.
 - * Can be configured to allow manually specified static IP addresses.
 - * Best choice to allow only authorized users (both DHCP and static IP users).
 - # C. DHCP Snooping + DAI (Incorrect)
 - * DAI (Dynamic ARP Inspection) prevents ARP spoofing but does not block unauthorized static IP users.
 - * Lacks IP-level access control needed to enforce static IP policies.
 - # D. DAI + IPSG (Incorrect)
 - * IPSG (IP Source Guard) needs DHCP Snooping to build the binding table.
 - * Without DHCP Snooping, IPSG cannot function properly.
 - * DAI does not provide complete protection against unauthorized users.
- Why is the Answer B (DHCP Snooping + IPSG)?
- # Ensures only users assigned a DHCP IP (or authorized static IPs) can send traffic.# Blocks rogue DHCP servers and unauthorized static IP users.
- Real-World Application:
- * Enterprise Networks: Prevents unauthorized static IP users or attackers from accessing VLANs.
 - * Public Wi-Fi Security: Ensures only authorized users receive IPs and can send traffic.
- # Reference: Huawei HCIE-Datcom Guide - DHCP Snooping and IPSG Security Mechanisms

NEW QUESTION # 251

Which of the following statements is incorrect about Authentication Header (AH)?

- A. AH provides packet encryption.
- B. AH provides data integrity authentication.
- C. AH provides anti-replay protection.
- D. AH provides data origin authentication.

Answer: A

Explanation:

Authentication Header (AH) in IPsec

The Authentication Header (AH) protocol is part of IPsec and provides authentication, integrity, and replay protection but does NOT provide encryption.

- # B. AH provides data origin authentication.
- * Ensures that packets come from a trusted source using cryptographic signatures.
- # C. AH provides anti-replay protection.
- * Uses sequence numbers to prevent attackers from replaying old packets.
- # D. AH provides data integrity authentication.
- * Ensures data integrity by verifying that packets have not been tampered with during transmission.
- # A. AH provides packet encryption - Incorrect!
- * AH does not encrypt packet contents. It only authenticates headers.
- * ESP (Encapsulating Security Payload) is used for encryption in IPsec.

Reference from Huawei HCIE-Datcom Documentation:

- * Huawei IPsec Configuration Guide - AH vs. ESP
- * HCIE-Datcom Training Material - IPsec Security Mechanisms

NEW QUESTION # 252

In a scenario where a VXLAN tunnel is dynamically established through BGP EVPN, run the command on the VTEP to view BGP EVPN routes. The route entries shown in the following figure are displayed. Which of the following statements about these routing entries are correct?

Network (EthTagId/IP Prefix/IP PrefixLen)

NextHop

- ```
*>i 0:172.16.2.0/24 1.1.1.2
*>i 0:172.16.13.0/24 1.1.1.2
*>i 0:192.168.122.0/30 1.1.1.2
```

- A. These routes carry the L2VNI.

- B. These routes are Type 5 routes and carry network segment or mask information.
- C. These routes carry the L3VNI.
- D. These routes are Type 2 routes and carry host IP addresses.

**Answer: B,C**

Explanation:

Understanding BGP EVPN Route Types for VXLAN

# BGP EVPN (Ethernet VPN) is used for VXLAN control-plane learning.

# EVPN Type 2 Route (MAC/IP Advertisement)

\* Carries: MAC + Host IP

\* Used for: L2 forwarding, Host Mobility

# EVPN Type 5 Route (IP Prefix Advertisement)

\* Carries: Network segment (Subnet) + Prefix

\* Used for: VXLAN L3 routing

# What Do the Given Route Entries Show?

\* 0:172.16.2.0/24

\* 0:172.16.13.0/24

\* 0:192.168.122.0/30

# These are IPv4 Subnets, NOT individual MACs.# Since they carry IP Prefixes, they belong to EVPN Type 5.

Analysis of the Answer Choices:

# A. These routes are Type 5 routes and carry network segment or mask information.

\* Correct: The displayed routes carry network prefixes, which belong to EVPN Type 5.

# B. These routes are Type 2 routes and carry host IP addresses.

\* Incorrect: Type 2 routes carry MAC + Host IP, NOT full subnets.

# C. These routes carry the L2VNI.

\* Incorrect: L2VNI is for Layer 2 VXLAN bridging, but these are IP Prefix Routes (L3 routing).

# D. These routes carry the L3VNI.

\* Correct: Type 5 routes are used for VXLAN L3 routing, which means they belong to L3VNI.

Real-World Application:

\* VXLAN L3 Gateways: Type 5 routes enable distributed routing between VXLAN segments.

\* Data Center Networks: Used to interconnect virtual machines (VMs) across different subnets.

# Reference: Huawei HCIE-Datcom Guide - BGP EVPN & VXLAN L3 Routing

## NEW QUESTION # 253

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