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Huawei HCIE-Datacom V1.0 Sample Questions (Q94-Q99):

NEW QUESTION # 94

The ingress VTEP performs both Layer 2 and Layer 3 table lookup for packet forwarding. The forwarding mode is _____ IRB forwarding. (Capitalize the first letter.)

Answer:

Explanation:

Symmetric

Explanation:

Understanding IRB (Integrated Routing and Bridging) Forwarding in VXLAN VXLAN (Virtual Extensible LAN) supports Layer 2 and Layer 3 forwarding between Virtual Network Identifiers (VNIs).

* IRB (Integrated Routing and Bridging) enables inter-subnet communication within a VXLAN fabric.

* There are two modes of IRB forwarding:

* Symmetric IRB

* Asymmetric IRB

Why the Answer is "Symmetric" IRB Forwarding?

Ingress VTEP performs both Layer 2 and Layer 3 lookups:

* Symmetric IRB requires both ingress and egress VTEPs to perform Layer 3 lookups.

* The ingress VTEP (source gateway) performs a Layer 2 MAC lookup, then a Layer 3 lookup to find the destination VTEP.

* The egress VTEP (destination gateway) performs another Layer 3 lookup before forwarding the packet to the destination.

Asymmetric IRB does not perform two lookups at the ingress VTEP:

* In Asymmetric IRB, the ingress VTEP performs both Layer 2 and Layer 3 forwarding and sends a Layer 2 packet to the egress VTEP.

* The egress VTEP only does a Layer 2 lookup, not a Layer 3 lookup.

* Since the question states that both L2 and L3 lookups occur at the ingress VTEP, asymmetric IRB is incorrect.

Why Symmetric IRB is More Common?

* Scalability: Supports any-to-any communication across VXLAN networks.

* More Efficient Routing: Uses Layer 3 VXLAN encapsulation, ensuring efficient routing between VNIs.

Reference: Huawei HCIE Datacom - VXLAN Symmetric and Asymmetric IRB Forwarding

NEW QUESTION # 95

Is the following statement about VLAN aggregation correct?

- A. The super Sub-VLAN contains a physical interface that can establish a Layer 3 VLANIF interface
- B. Sub-VLAN is used to isolate broadcast domains
- C. A Super VLAN can contain one or more Sub-VLANs
- D. Sub-VLAN contains a physical interface that can establish a Layer 3 VLANIF interface

Answer: B,C

NEW QUESTION # 96

Which of the following is the benefit of VLAN aggregation?

- A. Increased number of available VLANs
- B. Implements isolation of broadcast domains between Sub-VLANs
- C. Increased flexibility in addressing
- D. Reduce the waste of IP addresses

Answer: B,C,D

NEW QUESTION # 97

In the small and midsize campus network design based on the Huawei CloudCampus Solution, when over 100 branches need to communicate with each other, which of the following interconnection networking models is recommended?

- A. Direct networking
- B. Full-mesh networking
- **C. Hub-spoke networking**
- D. Partial-mesh networking

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

Hub-Spoke networking is the most efficient and scalable model for interconnecting 100+ branches in a small and midsize campus network.

Why Hub-Spoke?

* Centralized Control: A hub router manages communication between spoke routers (branch sites).

* Reduced Complexity: Unlike full-mesh, which requires $N(N-1)/2$ connections, hub-spoke minimizes link costs.

* Easier Management: Policy enforcement and security are centralized at the hub site.

Why Not Other Options?# A (Direct Networking) # Suitable for small networks, but inefficient for 100+ branches.# B (Full-Mesh Networking) # High cost and complexity, requiring too many links.# D (Partial- Mesh Networking) # More scalable than full-mesh, but hub-spoke is more optimized for large branch networks.

Reference: Huawei HCIE Datacom - WAN Interconnection Models

NEW QUESTION # 98

Which of the following statements does not cause the flapping of a VRRP group?

- A. Too small interval between Advertisement packet transmissions
- **B. Inconsistent preemption delay settings**
- C. Packet loss on an interface of the backup device
- D. Flapping on the link transmitting VRRP Advertisement packets

Answer: B

Explanation:

VRRP (Virtual Router Redundancy Protocol) and Flapping

VRRP ensures gateway redundancy by allowing multiple routers to work together as a virtual router.

Flapping occurs when the master and backup routers frequently switch roles.

Causes of VRRP Flapping:

A. Too small interval between Advertisement packet transmissions - Can cause flapping

* If the Advertisement interval is too short, frequent VRRP state changes can occur.

C. Packet loss on an interface of the backup device - Can cause flapping

* If the backup router loses VRRP packets, it might assume the master is down and initiate an election.

D. Flapping on the link transmitting VRRP Advertisement packets - Can cause flapping

* If the link used for VRRP experiences instability, packets may be lost, triggering VRRP role changes.

Incorrect Answer Explanation:

B. Inconsistent preemption delay settings - Does NOT cause VRRP flapping

* Preemption delay only affects when a router takes over as master after recovering from a failure.

* It does not directly cause flapping because the role change happens only after a delay, preventing frequent transitions.

Reference from Huawei HCIE-Datacom Documentation:

* Huawei VRRP Configuration Guide - Preventing VRRP Flapping

* HCIE-Datacom Study Material- VRRP Timers and Stability

NEW QUESTION # 99

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