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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q19-Q24):

NEW QUESTION # 19

You are implementing VXLAN broadcast domains in your data center environment. Which two statements are correct in this scenario? (Choose two.)

- A. The VNI is a 16-bit value and can range from 0 through 16,777,215.
- B. The VNI must match the VLAN tag to ensure that the remote VTEP can decapsulate VXLAN packets.
- C. Layer 2 frames are encapsulated by the source VTEP.
- D. A VXLAN packet does not contain a VLAN ID.

Answer: C,D

Explanation:

* VXLAN Overview:

* VXLAN (Virtual Extensible LAN) is a network virtualization technology that encapsulates Layer 2 Ethernet frames into Layer 3 UDP packets for transmission over an IP network. It allows the creation of Layer 2 overlay networks across a Layer 3 infrastructure.

* Understanding VXLAN Components:

* VTEP (VXLAN Tunnel Endpoint): A VTEP is responsible for encapsulating and decapsulating Ethernet frames into and from VXLAN packets.

* VNI (VXLAN Network Identifier): A 24-bit identifier used to distinguish different VXLAN segments, allowing for up to 16 million unique segments.

* Correct Statements:

* C. Layer 2 frames are encapsulated by the source VTEP: This is correct. In a VXLAN deployment, the source VTEP encapsulates the original Layer 2 Ethernet frame into a VXLAN packet before transmitting it over the IP network to the destination VTEP, which then decapsulates it.

* A. A VXLAN packet does not contain a VLAN ID: This is correct. The VXLAN header does not carry the original VLAN ID; instead, it uses the VNI to identify the network segment. The VLAN ID is local to the switch and does not traverse the VXLAN tunnel.

* Incorrect Statements:

* B. The VNI must match the VLAN tag to ensure that the remote VTEP can decapsulate VXLAN packets: This is incorrect. The VNI is independent of the VLAN tag, and the VLAN ID does not need to match the VNI. The VNI is what the remote VTEP uses to identify the correct VXLAN segment.

* D. The VNI is a 16-bit value and can range from 0 through 16,777,215: This is incorrect because the VNI is a 24-bit value, allowing for a range of 0 to 16,777,215.

Data Center References:

* VXLAN technology is critical for modern data centers as it enables scalability and efficient segmentation without the constraints of traditional VLAN limits.

NEW QUESTION # 20

Exhibit.

Exhibit

JUNIPER NETWORKS

```
user@leaf1> show evpn database
Instance: evpn-1
```

VLAN	DomainId	MAC address	Active source	Timestamp	IP address
10001		00:1c:73:00:00:01	irb.4000	Apr 16 11:46:14	10.4.4.1
10001		40:00:dc:01:00:01	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	10.4.4.2
10001		40:00:dc:01:00:02	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	10.4.4.3
10001		40:00:dc:01:00:03	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	10.4.4.4
10001		40:00:dc:01:00:04	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	10.4.4.5
10001		40:00:dc:01:00:05	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	10.4.4.6
10001		44:11:01:00:00:01	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	
10001		44:11:01:00:00:02	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	
10001		44:11:01:00:00:03	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	
10001		44:11:01:00:00:04	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	
10001		44:11:01:00:00:05	00:02:00:00:00:00:04:00:00:04	Apr 16 11:46:14	
10001		44:12:01:00:00:01	00:02:00:00:00:00:03:00:00:03	Apr 16 11:46:14	
10001		44:12:01:00:00:02	00:02:00:00:00:00:03:00:00:03	Apr 16 11:46:14	
10001		44:12:01:00:00:03	00:02:00:00:00:00:03:00:00:03	Apr 16 11:46:14	
10001		44:12:01:00:00:04	00:02:00:00:00:00:03:00:00:03	Apr 16 11:46:14	
10001		44:12:01:00:00:05	00:02:00:00:00:00:03:00:00:03	Apr 16 11:46:14	
10002		00:1c:73:00:00:01	irb.300	Apr 16 11:46:14	10.3.3.1
10002		30:00:dc:01:00:01	00:02:00:00:00:00:01:00:00:01	Apr 16 11:46:14	
10002		30:00:dc:01:00:02	00:02:00:00:00:00:01:00:00:01	Apr 16 11:46:14	
10002		30:00:dc:01:00:03	00:02:00:00:00:00:01:00:00:01	Apr 16 11:46:14	
10002		30:00:dc:01:00:04	00:02:00:00:00:00:01:00:00:01	Apr 16 11:46:14	

The exhibit shows the truncated output of the show evpn database command.

Given this output, which two statements are correct about the host with MAC address 40:00:dc:01:00:04? (Choose two.)

- A. The host is located on VN10002.
- B. The host is assigned IP address 10.4.4.5.
- C. The host is originating from irb.300.
- D. The host is originating from an ESI LAG.

Answer: B,D

Explanation:

* Understanding the Output:

* The show evpn database command output shows the MAC address, VLAN, active source, timestamp, and IP address associated with various hosts in the EVPN instance.

* Analysis of the MAC Address:

* Option A: The MAC address 40:00:dc:01:00:04 is associated with the IP address 10.4.4.5, as indicated by the output in the IP address column. This confirms that this host has been assigned the IP 10.4.4.5.

* Option D: The active source for the MAC address 40:00:dc:01:00:04 is listed as 00:02:00:00:00:04:00:04:00:00:04:00:04, which indicates that the host is connected via an ESI (Ethernet Segment Identifier) LAG (Link Aggregation Group). This setup is typically used in multi-homing scenarios to provide redundancy and load balancing across multiple physical links.

Conclusion:

* Option A: Correct- The host with MAC 40:00:dc:01:00:04 is assigned IP 10.4.4.5.

* Option D: Correct- The host is originating from an ESI LAG, as indicated by the active source value.

NEW QUESTION # 21

Exhibit.



Connections between hosts connected to Leaf-1 and Leaf-2 are not working correctly.

Referring to the exhibit, which two configuration changes are required to solve the problem? (Choose two.)

- A. Configure the set switch-options service-id 1 parameter on Leaf-2.
- B. Configure the set switch-options vrf-target target: 65000:55 parameter on Leaf-2.
- C. Configure the set switch-options route-distinguisher 192.168.100.51:2 parameter on Leaf-1.
- D. Configure the set switch-options vtep-source-interface 100. 0 parameter on Leaf-1.

Answer: A,B

Explanation:

* Review of the Exhibit:

* The exhibit shows the switch configuration for Leaf-1 and Leaf-2. The configurations include route distinguishers, VRF targets, and service IDs, all of which are crucial for ensuring proper operation in an EVPN-VXLAN environment.

* Service-ID Consistency:

* The service ID must be consistent across all participating leaf devices in the same EVPN instance to ensure that they are part of the same VXLAN overlay network.

* VRF Target Consistency:

* The vrf-target parameter must also be consistent across devices to ensure that VRFs (Virtual Routing and Forwarding instances) are correctly imported and exported between leaf nodes.

Conclusion:

* Option B:Correct-Setting the same service-id on Leaf-2 ensures that it is part of the same VXLAN overlay as Leaf-1.

* Option D:Correct-The vrf-target on Leaf-2 should match Leaf-1 to ensure consistent routing policies and proper route exchange.

NEW QUESTION # 22

Exhibit.

```

Exhibit

user@spinel# show protocols bgp group underlay
type external;
export Export-Directs;
local-as 65101;
multipath {
    multiple-as;
}
neighbor 172.16.1.1 {
    peer-as 65201;
}
neighbor 172.16.1.5 {
    peer-as 65203;
}
neighbor 172.16.1.3 {
    peer-as 65202;
}
user@spinel# show policy-options
policy-statement Export-Directs {
    term loopback {
        from {
            protocol direct;
            route-filter 192.168.100.0/24 orlonger;
        }
        then accept;
    }
}

```

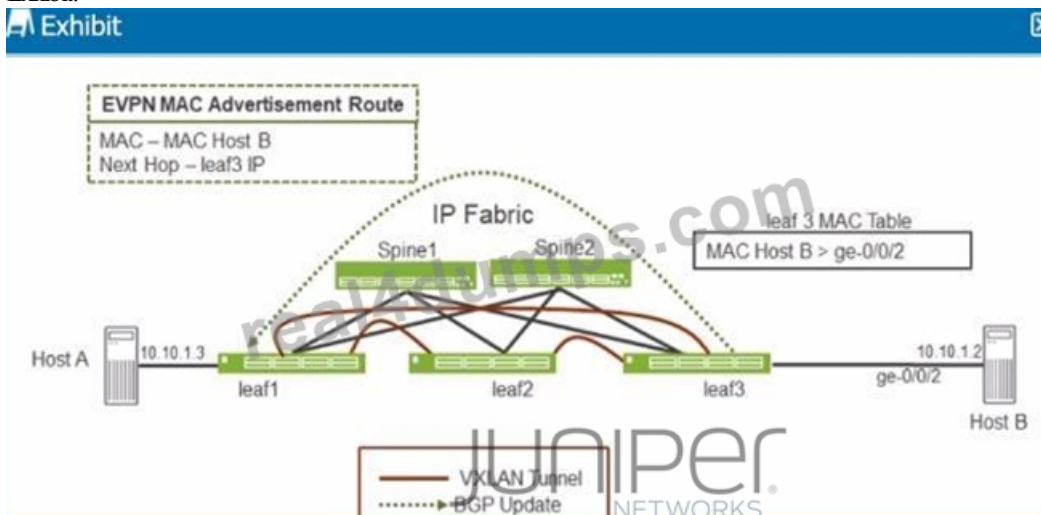
Referring to the exhibit, the spinel device has an underlay BGP group that is configured to peer with its neighbors' directly connected interfaces. Which two statements are true in this scenario? (Choose two.)

- A. The multipath statement is not required to establish the underlay BGP sessions.
- B. Load balancing for the underlay is configured correctly.
- C. Load balancing for the underlay is not configured correctly.
- D. The multipath statement is required to establish the underlay BGP sessions.

Answer: B,D

NEW QUESTION # 23

Exhibit.



Referring to the exhibit, when Host A sends an ARP request for Host B's IP address, which Junos feature does leaf1 require to send an ARP response back to Host A without having to send a broadcast frame over the fabric?

- A. proxy NDP
- B. DAD
- C. GARP
- D. proxy ARP

Answer: D

Explanation:

* Scenario Overview:

* In the exhibit, Host A is trying to resolve Host B's IP address (10.10.1.2) through ARP (Address Resolution Protocol). Normally, an ARP request would be broadcasted over the network, and the host owning the IP address (Host B) would respond.

* Role of Proxy ARP:

* Option A: Proxy ARP allows a router or switch (in this case, leaf1) to respond to ARP requests on behalf of another host. Leaf1, knowing the MAC address of Host B through the EVPN MAC advertisement, can reply to Host A's ARP request directly without broadcasting the request across the entire network fabric. This feature reduces unnecessary traffic and increases network efficiency.

Conclusion:

* Option A: Correct-Proxy ARP enables leaf1 to respond to Host A's ARP request for Host B's IP without broadcasting over the IP fabric, thus providing the ARP response locally.

NEW QUESTION # 24

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