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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q46-Q51):

NEW QUESTION # 46

You are deploying a Clos IP fabric with an oversubscription ratio of 3:1. In this scenario, which two statements are correct? (Choose two.)

- A. The oversubscription ratio remains the same when you remove spine devices.
- B. The oversubscription ratio remains the same when you add spine devices.
- C. The oversubscription ratio decreases when you add spine devices.
- D. The oversubscription ratio increases when you remove spine devices.

Answer: C,D

Explanation:

The oversubscription ratio is the ratio of edge (leaf) bandwidth to core (spine) bandwidth.

When you add spine devices, the total available core bandwidth increases, which reduces (decreases) the oversubscription ratio.

When you remove spine devices, the total core bandwidth decreases while edge bandwidth remains the same, causing the oversubscription ratio to increase.

NEW QUESTION # 47

You are using a single tenant data center with a bridged overlay architecture. In this scenario, how do hosts of the different virtual networks communicate with each other?

- A. using EVPN Type 5 routes
- B. using virtual gateway addresses configured on the spine
- C. using anycast gateway addresses configured on the leaf devices
- D. off-fabric using an external device

Answer: D

Explanation:

In a single-tenant data center using a bridged overlay architecture, virtual networks (VLANs) are typically isolated within the fabric, with traffic between these VLANs handled outside the fabric.

off-fabric using an external device: In many bridged overlay architectures, communication between different virtual networks is handled off-fabric, often using an external router or firewall that connects the different VLANs. The fabric itself primarily provides Layer 2 connectivity within each VLAN, leaving inter-VLAN routing to be handled externally.

This design is common in smaller or simpler data center environments where a single tenant does not require complex on-fabric routing and prefers to handle inter-VLAN routing through dedicated devices.

NEW QUESTION # 48

Which three statements are correct about VXLAN control planes? (Choose three.)

- A. EVPN is inefficient and does not scale well.
- B. Multicast is not agile and requires manual VNI mapping.
- C. Both multicast and EVPN can facilitate MAC learning.
- D. Multicast does not require as many resources.
- E. EVPN enables fast convergence and updates.

Answer: C,D,E

Explanation:

* VXLAN Control Planes:

* VXLAN (Virtual Extensible LAN) uses different control planes to handle MAC learning and traffic forwarding. The control planes include multicast and EVPN (Ethernet VPN).

* Multicast and EVPN Comparison:

* Option B: Both multicast and EVPN can be used for MAC learning in a VXLAN environment.

Multicast is a more traditional approach, while EVPN is more advanced and supports distributed MAC learning.

* Option D: EVPN offers benefits such as fast convergence and rapid updates, making it more efficient and scalable for modern data center environments.

* Option E: Multicast does not require as many resources because it relies on traditional Layer 3 multicast mechanisms to distribute broadcast, unknown unicast, and multicast (BUM) traffic.

However, it can be less flexible and less scalable compared to EVPN.

Conclusion:

- * Option B: Correct-Both control planes facilitate MAC learning
- * Option D: Correct-EVPN provides fast convergence and updates.
- * Option E: Correct-Multicast is resource-efficient but less flexible.

NEW QUESTION # 49

Click the Exhibit button.

☐ 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 vrf-target target:65000:55 parameter on Leaf 2.
- B. Configure the set switch-options vtep-source-interface lo0.0 parameter on Leaf 1.
- C. Configure the set switch-options service-id 1 parameter on Leaf 2.
- D. Configure the set switch-options route-distinguisher 192.168.100.51:2 parameter on Leaf 1.

Answer: A,B

NEW QUESTION # 50

You manage an IP fabric with an EVPN-VXLAN overlay. You have multiple tenants separated using multiple unique VRF instances. You want to determine the routing information that belongs in each routing instance's routing table.

In this scenario, which property is used for this purpose?

- A. the VRF target community
- B. the VRF table label
- C. the route distinguisher value
- D. the routing instance type

Answer: C

Explanation:

* Understanding VRF and Routing Instances:

* In an EVPN-VXLAN overlay network, multiple tenants are separated using unique VRF (Virtual Routing and Forwarding) instances. Each VRF instance maintains its own routing table, allowing for isolated routing domains within the same network infrastructure.

* Role of Route Distinguisher:

* Route Distinguisher (RD): The RD is a unique identifier used in MPLS and EVPN environments to distinguish routes belonging to different VRFs. The RD is prepended to the IP address in the route advertisement, ensuring that routes from different tenants remain unique even if they use the same IP address range.

* Correct Property:

* D. the route distinguisher value: This is the correct answer because the RD is crucial in determining which routing information belongs to which VRF instance. It ensures that each VRF's routing table only contains relevant routes, maintaining isolation between tenants.

Data Center References:

* The RD is a key element in MPLS and EVPN-based multi-tenant environments, ensuring proper routing segregation and isolation for different VRFs within the data center fabric.

NEW QUESTION # 51

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