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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q48-Q53):

NEW QUESTION # 48
What are two ways in which an EVPN-signaled VXLAN is different from a multicast-signaled VXLAN? (Choose two.)

- A. An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using BGP.
- B. An EVPN-signaled VXLAN features slower and more complete convergence.
- C. An EVPN-signaled VXLAN is less resource intensive.
- D. An EVPN-signaled VXLAN can perform autodiscovery of VTEPs using IS-IS.

Answer: A,C

NEW QUESTION # 49
You are deploying an IP fabric with an oversubscription ratio of 3:1.
In this scenario, which two statements are correct? (Choose two.)

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

Answer: B,C

Explanation:
* Understanding Oversubscription Ratio in IP Fabrics:
* The oversubscription ratio in an IP fabric typically refers to the ratio of the available bandwidth at the edge of the network (leaves) to the available bandwidth at the core or spine. A 3:1 oversubscription ratio means that for every 3 units of bandwidth at the leaves, there is 1 unit of bandwidth at the spine.
* Impact of Adding or Removing Leaf Devices:
* Removing Leaf Devices:When you remove leaf devices, the amount of total edge bandwidth decreases while the bandwidth in the spine remains constant. This causes the oversubscription ratio toincreasebecause there is now less total bandwidth to distribute across the same amount of spine bandwidth.
* Adding Leaf Devices:Conversely, when you add leaf devices, the total edge bandwidth increases. Since the spine bandwidth remains the same, the oversubscription ratio would remain the same if the additional leaves consume their share of the available bandwidth proportionally.
Conclusion:
* Option C:Correct-Removing leaf devices increases the oversubscription ratio.
* Option D:Correct-Adding leaf devices typically maintains the oversubscription ratio assuming uniform bandwidth distribution.

NEW QUESTION # 50
You are implementing VXLAN broadcast domains in your data center environment. Which two statements are correct in this scenario? (Choose two.)

- A. A VXLAN packet does not contain a VLAN ID.
- B. The VNI must match the VLAN tag to ensure that the remote VTEP can decapsulate VXLAN packets.
- C. The VNI is a 16-bit value and can range from 0 through 16.777.215.
- D. Layer 2 frames are encapsulated by the source VTEP.

Answer: A,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 # 51
Which two statements are correct about an IP fabric? (Choose two.)

- A. FBGP is only required to route mostrouting information to external devices outside the fabric.
- B. All leaf devices can use the same AS number in an IP fabric without making any adjustments to the EBGP configuration
- C. Only a single point to point EBGP session is required between peers in an IP fabric.
- D. The multipath multiple-as statement is required to enable ECMP if every device has a different AS number.

Answer: B,D

Explanation:
* BGP in IP Fabric:
* In an IP fabric, Border Gateway Protocol (BGP) is used to manage the routing between leaf and spine devices. Each device can have the same or different Autonomous System (AS) numbers depending on the network design.
* Multipath Multiple-AS:
* Option B:If every device in the fabric has a different AS number, then enabling Equal-Cost Multi-Path (ECMP) routing requires the multipath multiple-as statement. This configuration allows BGP to consider multiple paths across different AS numbers as equal cost, enabling efficient load balancing across the network.
* Same AS Number Configuration:
* Option A:It's possible for all leaf devices to use the same AS number in an IP fabric, which simplifies the configuration. EBGP (External BGP) will still function correctly in this setup because BGP considers the peering relationship rather than strictly enforcing different AS numbers in this specific use case.
Conclusion:
* Option B:Correct-This statement is essential for enabling ECMP in a multi-AS environment.
* Option A:Correct-Leaf devices can share the same AS number without needing special EBGP configuration.

NEW QUESTION # 52
You are asked to build redundant gateways in your EVPN-VXLAN environment, but you must conserve address space because these gateways must span across seven PES. What should you implement on the PEs lo satisfy these requirements?

- A. Use IRB interfaces with the same IP address and different MAC addresses.
- B. Use IRB interfaces with the same IP and VGA.
- C. Use IRB interfaces with the same IP and MAC address.
- D. Use IRB interfaces with different IP addresses and the same VGA.

Answer: C

Explanation:
* Redundant Gateways in EVPN-VXLAN:
* In an EVPN-VXLAN environment, providing redundant gateway functionality typically involves the use of Anycast Gateway. This allows multiple PEs (Provider Edge devices) to use the same IP address and MAC address for the gateway, enabling seamless failover and redundancy without IP conflicts.
* Conserving Address Space:
* Using the same IP address across multiple PEs conserves address space because only one IP address is needed for the gateway function, regardless of the number of PEs. The shared MAC address ensures that ARP resolution and forwarding behavior are consistent across all the PEs.
* Conclusion:
* Option C:Correct-Using IRB interfaces with the same IP and MAC address across all PEs satisfies the need for redundancy while conserving address space.
OptionsA, B,andDintroduce unnecessary complexity or do not fully utilize the efficient Anycast Gateway approach, which is best practice for conserving IP space and providing redundancy.

NEW QUESTION # 53

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