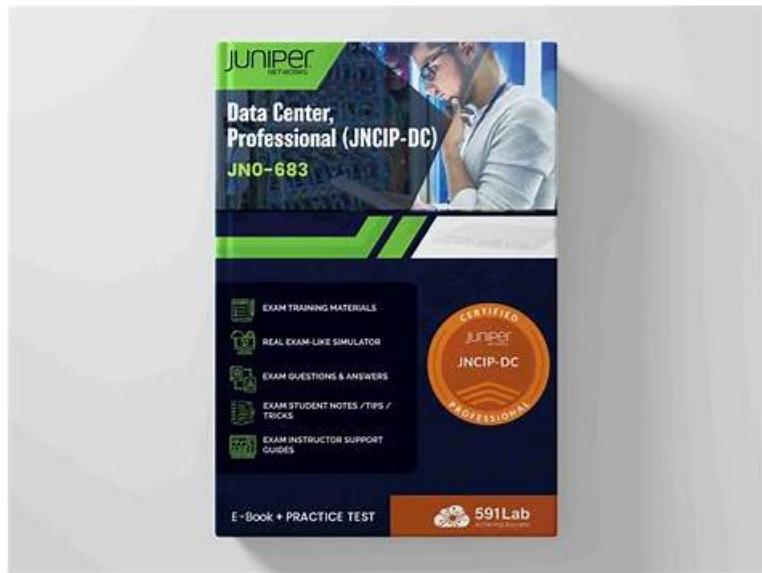


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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q33-Q38):

NEW QUESTION # 33

Exhibit.

You have implemented an EVPN-VXLAN data center. Device served must be able to communicate with device server2. Referring to the exhibit, which two statements are correct? (Choose two.)

- A. Traffic from server1 to server2 will transit the VXLAN tunnel between leaf1 and leaf2.
- B. An IRB interface must be configured on spine1 and spine2.
- C. Traffic from server1 to server2 will transit a VXLAN tunnel to spine1 or spine2, then a VXLAN tunnel from spine1 or spine2 to leaf2.
- D. An IRB Interface must be configured on leaf1 and leaf2.

Answer: A,D

Explanation:

- * Understanding the Exhibit Setup:
- * The network diagram shows an EVPN-VXLAN setup, a common design for modern data centers enabling Layer 2 and Layer 3 services over an IP fabric.
- * Leaf1 and Leaf2 are the leaf switches connected to Server1 and Server2, respectively, with each server in a different subnet (172.16.1.0/24 and 172.16.2.0/24).
- * Spine1 and Spine2 are part of the IP fabric, interconnecting the leaf switches.
- * EVPN-VXLAN Basics:
 - * EVPN (Ethernet VPN) provides Layer 2 and Layer 3 VPN services using MP-BGP.
 - * VXLAN (Virtual Extensible LAN) encapsulates Layer 2 frames into Layer 3 packets for transmission across an IP network.
 - * VTEP (VXLAN Tunnel Endpoint) interfaces on leaf devices handle VXLAN encapsulation and decapsulation.
- * Integrated Routing and Bridging (IRB):
 - * IRB interfaces are required on leaf1 and leaf2 (where the endpoints are directly connected) to route between different subnets (in this case, between 172.16.1.0/24 and 172.16.2.0/24).
 - * The IRB interfaces provide the necessary L3 gateway functions for inter-subnet communication.
- * Traffic Flow Analysis:
 - * Traffic from Server1 (172.16.1.1) destined for Server2 (172.16.2.1) must traverse from leaf1 to leaf2.
 - * The traffic will be VXLAN encapsulated on leaf1, sent over the IP fabric, and decapsulated on leaf2.
 - * Since the communication is between different subnets, the IRB interfaces on leaf1 and leaf2 are crucial for routing the traffic correctly.
- * Correct Statements:
 - * C. An IRB Interface must be configured on leaf1 and leaf2: This is necessary to perform the inter-subnet routing for traffic between Server1 and Server2.
 - * D. Traffic from server1 to server2 will transit the VXLAN tunnel between leaf1 and leaf2:

This describes the correct VXLAN operation where the traffic is encapsulated by leaf1 and decapsulated by leaf2.

Data Center References:

- * In EVPN-VXLAN architectures, the leaf switches often handle both Layer 2 switching and Layer 3 routing via IRB interfaces. This allows for efficient routing within the data center fabric without the need to involve the spine switches for every routing decision.
- * The described traffic flow aligns with standard EVPN-VXLAN designs, where direct VXLAN tunnels between leaf switches enable seamless and scalable communication across a data center network.

NEW QUESTION # 34

You are asked to interconnect two of your company's data centers across an IP backbone. Both data centers require Layer 2 and Layer 3 connectivity. In this scenario, which three actions would accomplish this task?
(Choose three.)

- A. Advertise Type 2 EVPN routes across the DCI.
- B. Advertise Type 5 EVPN routes across the DCI.
- C. Ensure there is a full mesh of VTEPs between all leaf nodes within data centers.
- D. Ensure there is a full mesh of VTEPs between all spine nodes within both data centers.
- E. Ensure border leaf nodes in each data center can exchange EVPN routes.

Answer: A,B,E

Explanation:

- * Layer 2 and Layer 3 Connectivity Requirements:
 - * To interconnect two data centers across an IP backbone with both Layer 2 (L2) and Layer 3 (L3) connectivity, EVPN-VXLAN (Ethernet VPN with Virtual Extensible LAN) is the ideal solution.
 - EVPN supports L2 VPNs while also enabling L3 connectivity across multiple locations.
- * Necessary EVPN Route Types:
 - * Type 2 EVPN Routes: These routes are used to advertise MAC addresses for Layer 2 connectivity. They are essential for enabling seamless L2 communication across data centers.
 - * Type 5 EVPN Routes: These routes are necessary for advertising IP prefixes for Layer 3 connectivity between data centers. They enable the exchange of L3 information across the IP backbone, ensuring routed traffic can reach its destination.
- * Border Leaf Nodes:
 - * Border Leaf Nodes: Ensuring that the border leaf nodes (the entry and exit points for traffic between data centers) can exchange EVPN routes is critical for the correct dissemination of both L2 and L3 information across the data centers.

Conclusion:

- * Option A: Correct - Type 2 EVPN routes are required for Layer 2 MAC address learning and communication across the DCI (Data Center Interconnect).
- * Option B: Correct - Border leaf nodes need to exchange EVPN routes to maintain connectivity between data centers.

* Option D:Correct-Type 5 EVPN routes are essential for Layer 3 connectivity across the DCI. Options C and E are incorrect because they refer to establishing full mesh VTEPs (VXLAN Tunnel Endpoints) across all spine or leaf nodes, which is unnecessary for the scenario provided. The focus should be on border leaf nodes and appropriate route advertisements for L2 and L3 connectivity.

NEW QUESTION # 35

Exhibit:

Both DC and DC2 are using EVPN-VXLAN technology deployed using an ERB architecture. A server on the Red VLAN must communicate with a server on the Green VLAN. The Blue VLAN in DC and DC2 needs to be the same VLAN.

Which statement is correct in this scenario?

- A. A lean super spine device must be added to DC and DC2; all VLANs must be stretched to the lean super spine device and the lean super spine devices must stitch all the VLANs together.
- B. An interconnect is required between the four SRX Series devices; the Blue VLAN must be stretched and a transit VNI must be added for the Red and Green VLANs.
- C. An interconnect is required between four leaf devices in the services blocks; the Red VLAN and the Green VLAN must be stitched and the Blue VLAN must be stretched.
- D. The eight spine devices must be configured as border spine devices; a full mesh interconnect must exist between all eight spine devices and the Blue VLAN must be stitched together

Answer: B

Explanation:

* ERB Architecture in EVPN-VXLAN:

* ERB (Edge Routed Bridging) architecture is commonly used in data center networks where routing decisions are made at the network edge (leaf or border devices), while bridging (Layer 2 forwarding) is extended across the fabric. This architecture allows for efficient L3 routing while still enabling L2 services like VLANs to span across multiple locations.

* VLAN and VNI Configuration:

* The scenario specifies that a server on the Red VLAN needs to communicate with a server on the Green VLAN. Since these VLANs are in different data centers (DC and DC2), and given the use of EVPN-VXLAN, the communication between these VLANs will require a transit VNI (Virtual Network Identifier). This transit VNI will allow traffic to traverse the VXLAN tunnel across the DCI (Data Center Interconnect).

* Interconnect between SRX Series Devices:

* The exhibit shows SRX Series Chassis Clusters used as service devices (likely for firewalling or other security services). These devices need to be interconnected between the two data centers to ensure that VLANs can communicate effectively. The Blue VLAN needs to be stretched between DC and DC2 to maintain the same Layer 2 domain across both data centers.

Conclusion:

* Option B:Correct-Interconnecting the SRX Series devices will ensure the necessary service chaining, while stretching the Blue VLAN and adding a transit VNI for the Red and Green VLANs will enable the required communication across the data centers.

NEW QUESTION # 36

You are asked to build out the VXLAN control plane.

In this scenario, which two protocols provide this capability? (Choose two.)

- A. PIM-SM
- B. OSPF
- C. MBGP
- D. IS-IS

Answer: A,C

Explanation:

MBGP (Multicast BGP): MBGP is used to advertise VXLAN information across the control plane, specifically for multicast-based VXLAN deployment. It helps in distributing VXLAN Network Identifiers (VNIs) and other relevant information in an efficient manner across the network.

PIM-SM (Protocol Independent Multicast - Sparse Mode): PIM-SM is used to build multicast distribution trees in VXLAN flood-and-learn mode or when multicast-based VXLAN control planes are used.

NEW QUESTION # 37

Exhibit.

A VXLAN tunnel has been created between leaf1 and Leaf2 in your data center. Referring to the exhibit, which statement is correct?

- A. Traffic sent from server1 to server2 will be tagged with VLAN ID 100 on Leaf2 and forwarded to server2.
- B. Traffic sent from server1 to server2 will be tagged with VLAN ID 200 on Leaf2 and forwarded to server2.
- **C. Traffic sent from server1 to server2 will be dropped on leaf1.**
- D. Traffic sent from server1 to server2 will be dropped on Leaf2.

Answer: C

NEW QUESTION # 38

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