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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">VXLAN: This part requires knowledge of VXLAN, particularly how the control plane manages communication between devices, while the data plane handles traffic flow. Demonstrate knowledge of how to configure, Monitor, or Troubleshoot VXLAN.

Topic 2	<ul style="list-style-type: none"> • Data Center Deployment and Management: This section assesses the expertise of data center networking professionals like architects and engineers, focusing on key deployment concepts. Topics include Zero-touch provisioning (ZTP), which automates device setup in data centers without manual input.
Topic 3	<ul style="list-style-type: none"> • Data Center Multitenancy and Security: This section tests knowledge of single-tenant and multitenant data center setups. Candidates such as Data Center Professionals are evaluated on ensuring tenant traffic isolation at both Layer 2 and Layer 3 levels in shared infrastructure environments.
Topic 4	<ul style="list-style-type: none"> • EVPN-VXLAN Signaling: This section assesses an understanding of Ethernet VPN (EVPN) concepts, including route types, multicast handling, and Multiprotocol BGP (MBGP). It also covers EVPN architectures like CRB and ERB, MAC learning, and symmetric routing.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q26-Q31):

NEW QUESTION # 26

You want to ensure that VXLAN traffic from the xe-0/0/12 interface is being encapsulated by logical vtep.32770 and sent to a remote leaf device in this scenario, which command would you use to verify that traffic is flowing?

- A. **show interfaces terse vtep.32770 statistics**
- B. show interfaces vtep.32770 detail
- C. monitor traffic interface xe-0/0/12
- D. show interface terse vtep.32770

Answer: A

Explanation:

* VXLAN Traffic Verification:

* To ensure VXLAN traffic from the xe-0/0/12 interface is correctly encapsulated by the logical vtep.32770 and sent to a remote leaf device, it is essential to monitor the relevant interface statistics.

* The command `show interfaces terse vtep.32770 statistics` provides a concise overview of the traffic statistics for the specific VTEP interface, which can help verify whether traffic is being correctly encapsulated and transmitted.

* Explanation:

* This command is particularly useful for quickly checking the traffic counters and identifying any potential issues with VXLAN encapsulation or transmission.

* It allows you to confirm that traffic is flowing as expected, by checking the transmitted and received packet counters.

Data Center References:

* Monitoring interface statistics is a crucial step in troubleshooting and validating network traffic, particularly in complex overlay environments like EVPN-VXLAN.

NEW QUESTION # 27

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 dropped on leaf2.
- C. Traffic sent from server1 to server2 will be dropped on leaf1.
- **D. Traffic sent from server1 to server2 will be tagged with VLAN ID 200 on leaf2 and forwarded to server2.**

Answer: D

Explanation:

* Understanding VXLAN Tunneling:

* VXLAN (Virtual Extensible LAN) is a network virtualization technology that addresses the scalability issues associated with traditional VLANs. VXLAN encapsulates Ethernet frames in UDP, allowing Layer 2 connectivity to extend across Layer 3 networks.

* Each VXLAN network is identified by a unique VXLAN Network Identifier (VNI). In this exhibit, we have two VNIs, 5100 and 5200, assigned to the VXLAN tunnels between leaf1 and leaf2.

* Network Setup Details:

- * Leaf1:Connected to Server1 with VLAN ID 100 and associated with VNI 5100.
 - * Leaf2:Connected to Server2 with VLAN ID 200 and associated with VNI 5200.
 - * Spine:Acts as the interconnect between leaf switches.
 - * Traffic Flow Analysis:
 - * When traffic is sent from Server1 to Server2, it is initially tagged with VLAN ID 100 on leaf1.
 - * The traffic is encapsulated into a VXLAN packet with VNI 5100 on leaf1.
 - * The packet is then sent across the network (via the spine) to leaf2.
 - * On leaf2, the VXLAN header is removed, and the original Ethernet frame is decapsulated.
 - * Leaf2 will then associate this traffic with VLAN ID 200 before forwarding it to Server2.
 - * Correct Interpretation of the Exhibit:
 - * The traffic originating from Server1, which is tagged with VLAN ID 100, will be encapsulated into VXLAN and transmitted to leaf2.
 - * Upon arrival at leaf2, it will be decapsulated, and since it is associated with VNI 5200 on leaf2, the traffic will be retagged with VLAN ID 200.
 - * Therefore, the traffic will reach Server2 tagged with VLAN ID 200, which matches the network configuration shown in the exhibit.
 - * Data Center References:
 - * This configuration is typical in data centers using VXLAN for network virtualization. It allows isolated Layer 2 segments (VLANs) to be stretched across Layer 3 boundaries while maintaining distinct VLAN IDs at each site.
 - * This approach is efficient for scaling large data center networks while avoiding VLAN ID exhaustion and enabling easier segmentation.
- In summary, the correct behavior, as per the exhibit and the detailed explanation, is that traffic sent from Server1 will be tagged with VLAN ID 200 when it reaches Server2 via leaf2. This ensures proper traffic segmentation and handling across the VXLAN-enabled data center network.

NEW QUESTION # 28

You are asked to interconnect two data centers using a method that provides EVPN Type 2 connectivity, is highly scalable, and limits VXLAN tunnels between border leaf devices. What will satisfy these requirements?

- A. EVPN Type 2 stretch
- **B. Type 2 seamless stitching**
- C. over the top full-mesh interconnect
- D. IP VPN

Answer: B

Explanation:

Type 2 seamless stitching is the best solution for interconnecting two data centers while providing EVPN Type 2 connectivity (MAC/IP routes for end-host reachability), high scalability, and limiting VXLAN tunnels between border leaf devices. This method ensures that MAC addresses are properly learned and distributed across the two data centers without requiring a full mesh of VXLAN tunnels between all leaf switches. Instead, VXLAN tunnels are limited to border leaf devices, reducing the complexity and improving scalability.

NEW QUESTION # 29

Exhibit.

You are troubleshooting an IP fabric (or your data center). You notice that your traffic is not being load balanced to your spine devices from your leaf devices. Referring to the configuration shown in the exhibit, what must be configured to solve this issue?

- **A. The multipath multiple-as configuration must be configured for each peer in the BGP spine group.**
- B. The load-balance policy must be applied as an export policy to your BGP
- C. The load-balance policy must have a from statement that matches on protocol bgp.
- D. The load-balance policy must be applied to the forwarding table under the routing-options hierarchy.

Answer: A

Explanation:

* IP Fabric Load Balancing:

* In the provided configuration, traffic is not being load-balanced to the spine devices. The issue likely relates to how BGP routes are being selected and whether Equal-Cost Multi-Path (ECMP) is functioning correctly.

* Multipath Multiple-AS:

* Option B: The multipath multiple-as configuration is essential when using BGP in an IP fabric where devices belong to different Autonomous Systems (AS). This setting allows BGP to consider multiple paths (even across different AS numbers) as equal cost, enabling ECMP and proper load balancing across spine devices.

Conclusion:

* Option B: Correct- The multipath multiple-as configuration is necessary for achieving ECMP and effective load balancing in a multi-AS BGP environment.

NEW QUESTION # 30

Which two statements are correct about an IP fabric? (Choose two.)

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

Answer: A,C

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 # 31

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