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```

Exhibit:
user@leaf-1> show configuration switch-options
service-id 1:
vtep-source-interface lo0.0:
route-distinguisher 192.168.100.51:1:
vrf-target target:45000:1:
user@leaf-2> show configuration switch-options
vtep-source-interface lo0.0:
route-distinguisher 192.168.100.51:1:
vrf-target target:45000:2:
    
```

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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<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 3	<ul style="list-style-type: none"> • Layer 3 Fabrics: This section measures the knowledge of professionals managing IP-based networks in data centers. It covers IP fabric architecture and routing, ensuring candidates understand how the network is structured for scalability and how traffic is routed efficiently.
Topic 4	<ul style="list-style-type: none"> • Data Center Interconnect: For Data Center Engineers, this part focuses on interconnecting data centers, covering Layer 2 and Layer 3 stretching, stitching fabrics together, and using EVPN-signaled VXLAN for seamless communication between data centers.
Topic 5	<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.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q24-Q29):

NEW QUESTION # 24

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. Layer 2 frames are encapsulated by the source VTEP.
- D. The VNI is a 16-bit value and can range from 0 through 16,777,215.

Answer: A,C

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 # 25

In your EVPN-VXAN environment, you want to prevent a multihomed server from receiving multiple copies of BUM traffic in active/active scenarios. Which EVPN route type would satisfy this requirement?

- A. Type 5

- B. Type 7
- C. Type 8
- D. Type 4

Answer: D

Explanation:

* Understanding the Scenario:

* In an EVPN-VXLAN environment, when using multi-homing in active/active scenarios, there's a risk that a multihomed server might receive duplicate copies of Broadcast, Unknown unicast, and Multicast (BUM) traffic. This is because multiple VTEPs might forward the same BUM traffic to the server.

* EVPN Route Types:

* Type 4 Route (Ethernet Segment Route): This route type is used to advertise the Ethernet Segment (ES) to which the device is connected. It is specifically used in multi-homing scenarios to signal the ES and its associated Ethernet Tag to all the remote VTEPs. The Type 4 route includes information that helps prevent BUM traffic duplication in active/active multi-homing by using a split-horizon mechanism, which ensures that traffic sent to a multihomed device does not get looped back.

* Explanation:

* The Type 4 route is crucial for ensuring that in a multi-homed setup, particularly in an active/active configuration, BUM traffic does not result in duplication at the server. The route helps coordinate which VTEP is responsible for forwarding the BUM traffic to the server, thereby preventing duplicate traffic.

Data Center References:

* Type 4 routes are essential for managing multi-homing in EVPN to avoid the issues of BUM traffic duplication, which could otherwise lead to inefficiencies and potential network issues.

NEW QUESTION # 26

You are deploying an IP fabric using EBGP and notice that your leaf devices are advertising and receiving all the routes. However, the routes are not installed in the routing table and are marked as hidden.

Which two statements describe how to solve the issue? (Choose two.)

- A. You need to configure multipath multiple-as.
- B. You need to configure loops 2.
- C. You need to configure a next-hop self policy.
- D. You need to configure as-override.

Answer: A,B

NEW QUESTION # 27

Exhibit.

```

user@Leaf-1> show configuration switch-options
service-id 1;
route-distinguisher 192.168.100.51:1;
vrf-target target:65000:55;
user@Leaf-2> show configuration switch-options
vtep-source-interface lo0.0;
route-distinguisher 192.168.100.51:2;
vrf-target target:65000:54;

```

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 vtep-source-interface 100.0 parameter on Leaf-1.
- C. Configure the set switch-options route-distinguisher 192.168.100.51:2 parameter on Leaf-1.
- D. Configure the set switch-options vrf-target target: 65000:55 parameter on Leaf-2.

Answer: A,D

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 # 28

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 # 29

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