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Data Center
Professional (JNCIP-
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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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">• 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 (Q32-Q37):

NEW QUESTION # 32

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

Answer: C,D

NEW QUESTION # 33

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

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

Answer: A,C,D

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 # 34

You are deploying an EVPN-VXLAN overlay. You must ensure that Layer 3 routing happens on the spine devices. In this scenario, which deployment architecture should you use?

- A. ERB
- B. bridged overlay
- **C. CRB**
- D. distributed symmetric routing

Answer: C

Explanation:

* Understanding EVPN-VXLAN Architectures:

* EVPN-VXLAN overlays allow for scalable Layer 2 and Layer 3 services in modern data centers.

* CRB (Centralized Routing and Bridging): In this architecture, the Layer 3 routing is centralized on spine devices, while the leaf devices focus on Layer 2 switching and VXLAN tunneling. This setup is optimal when the goal is to centralize routing for ease of management and to avoid complex routing at the leaf level.

* ERB (Edge Routing and Bridging): This architecture places routing functions on the leaf devices, making it a distributed model where each leaf handles routing for its connected hosts.

* Architecture Choice for Spine Routing:

* Given the requirement to ensure Layer 3 routing happens on the spine devices, the CRB (Centralized Routing and Bridging) architecture is the correct choice. This configuration offloads routing tasks to the spine, centralizing control and potentially simplifying the overall design.

* Explanation:

* With CRB, the spine devices perform all routing between VXLAN segments. Leaf switches handle local switching and VXLAN encapsulation, but routing decisions are centralized at the spine level.

* This model is particularly advantageous in scenarios where centralized management and routing control are desired, reducing the complexity and configuration burden on the leaf switches.

Data Center References:

* The CRB architecture is commonly used in data centers where centralized control and simplified management are key design considerations. It allows the spines to act as the primary routing engines, ensuring that routing is handled in a consistent and scalable manner across the fabric.

NEW QUESTION # 35

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;

```

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NETWORKS

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 route-distinguisher 192.168.100.51:2 parameter on Leaf-1.
- B. Configure the set switch-options vtep-source-interface 100. 0 parameter on Leaf-1.
- C. Configure the set switch-options service-id 1 parameter on Leaf-2.
- D. Configure the set switch-options vrf-target target: 65000:55 parameter on Leaf-2.

Answer: C,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 # 36

You are adding a server to a tenant's network within your data center and must limit access to a specific traffic type within the tenant network without pushing all tenant traffic through a firewall.

What will satisfy this requirement?

- A. Use a static route in the tenant VRF with a firewall as the next hop for traffic to the new server.
- B. Put the new server on a unique subnet within the tenant's network.
- C. Use route leaking with EVPN and a routing policy.
- D. Use filter-based forwarding.

Answer: D

Explanation:

* Controlling Traffic Within a Tenant's Network:

* The requirement is to limit access to specific traffic types within a tenant's network without routing all tenant traffic through a firewall. This requires a selective method that can direct specific types of traffic to different paths based on the nature of the traffic.

* Filter-Based Forwarding (FBF):

* FBF is a technique that allows for routing decisions based on filters applied to the traffic, such as matching on source IP addresses, destination IP addresses, or even specific application types (like HTTP or FTP). This allows specific types of traffic to be forwarded to a specific next hop (e.g., a firewall) without affecting the entire traffic flow within the tenant's network.

Conclusion:

* Option B: Correct-Filter-based forwarding allows for granular control of traffic, ensuring that only specific types of traffic within the tenant's network are redirected through a firewall, satisfying the requirement.

NEW QUESTION # 37

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