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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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	• 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 4	• 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 5	• 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.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q38-Q43):

NEW QUESTION # 38

You are deploying a new network to support your AI workloads on devices that support at least 400 Gbps Ethernet. There is no requirement for any Layer 2 VLANs in this network. Which network architecture would satisfy this requirement?

- A. an IP fabric using PIM-SM to signal VXLAN overlay
- B. an IP fabric with an EVPN-VXLAN architecture
- C. an IP fabric using EBGp
- D. an IP fabric using the EVPN-MPLS architecture

Answer: C

Explanation:

* Requirements for AI Workloads:

* The scenario requires a network that supports at least 400 Gbps Ethernet and does not require Layer 2 VLANs. This setup is well-suited for a pure Layer 3 network, which can efficiently route traffic between devices without the overhead or complexity of maintaining Layer 2 domains.

* Choosing the Right Network Architecture:

* Option D: An IP fabric using EBGp (External BGP) is ideal for this scenario. In a typical IP fabric, EBGp is used to handle routing between spine and leaf switches, creating a scalable and efficient network. Since there is no need for Layer 2 VLANs, the pure IP fabric design with EBGp provides a straightforward and effective solution.

* Options A, B, and C involve more complex architectures (like VXLAN or EVPN), which are unnecessary when there's no requirement for Layer 2 overlays or VLANs.

Conclusion:

* Option D: Correct—An IP fabric with EBGp is the most suitable and straightforward architecture for a network that needs to support high-speed AI workloads without Layer 2 VLANs.

NEW QUESTION # 39

You are designing an IP fabric for a large data center, and you are concerned about growth and scalability. Which two actions would you take to address these concerns? (Choose two.)

- A. Use OFX5700 Series devices as the super spines.
- B. Use EX4300 Series devices as the spine devices.
- C. Design a three-stage Clos IP fabric.
- D. Design a five-stage Clos IP fabric.

Answer: A,C

Explanation:

* Clos IP Fabric Design:

* A Clos fabric is a network topology designed for scalable, high-performance data centers. It is typically arranged in multiple stages, providing redundancy, high bandwidth, and low latency.

* Three-Stage Clos Fabric:

* Option B: A three-stage Clos fabric, consisting of leaf, spine, and super spine layers, is widely used in data centers. This design scales well and allows for easy expansion by adding more leaf and spine devices as needed.

* Super Spines for Scalability:

* Option D: Using high-capacity devices like the QFX5700 Series as super spines can handle the increased traffic demands in large data centers and support future growth. These devices provide the necessary bandwidth and scalability for large-scale deployments.

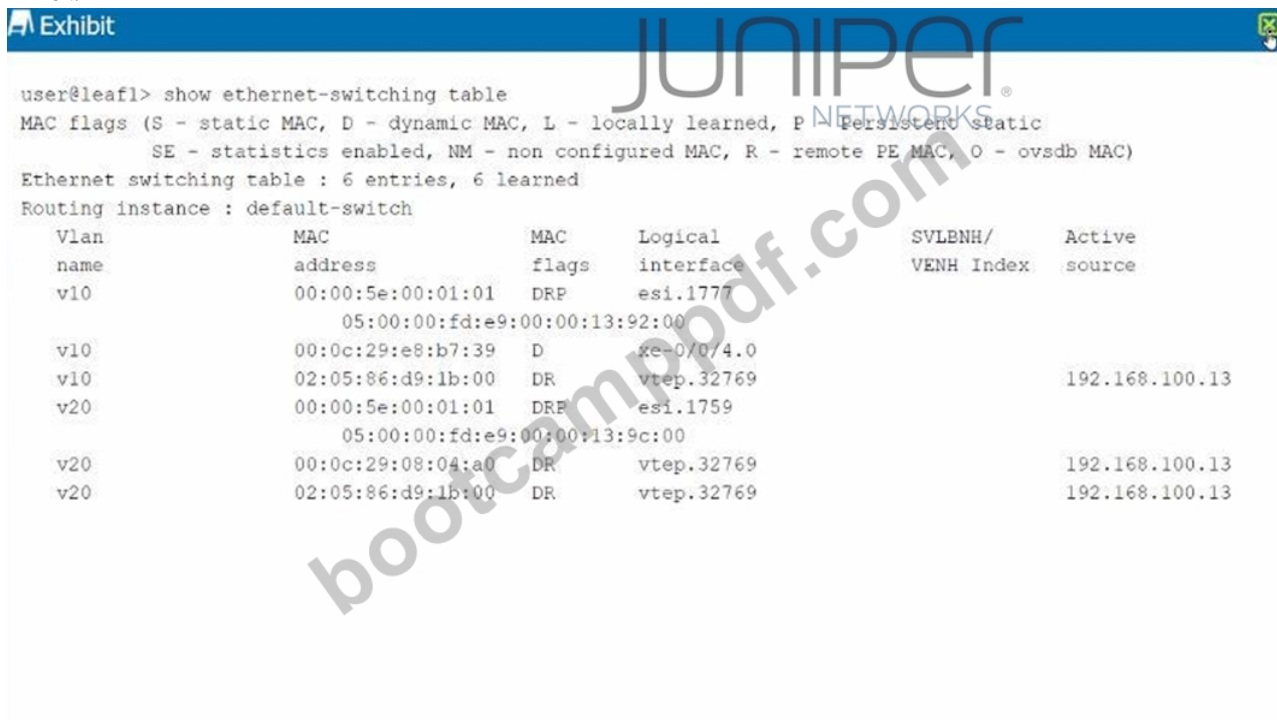
Conclusion:

* Option B: Correct - A three-stage Clos fabric is a proven design that addresses growth and scalability concerns in large data centers.

* Option D: Correct - QFX5700 Series devices are suitable for use as super spines in large-scale environments due to their high performance.

NEW QUESTION # 40

Exhibit.



```
user@leaf1> show ethernet-switching table
MAC flags (S - static MAC, D - dynamic MAC, L - locally learned, P - Persistent static
SE - statistics enabled, NM - non configured MAC, R - remote PE MAC, O - ovsdb MAC)
Ethernet switching table : 6 entries, 6 learned
Routing instance : default-switch
Vlan name      MAC address      MAC flags  Logical interface  SVLBNH/ VENH Index  Active source
v10            00:00:5e:00:01:01  DRP       esi.1777
               05:00:00:fd:e9:00:00:13:92:00
v10            00:0c:29:e8:b7:39  D         xe-0/0/4.0
v10            02:05:86:d9:1b:00  DR        vtep.32769        192.168.100.13
v20            00:00:5e:00:01:01  DRP       esi.1759
               05:00:00:fd:e9:00:00:13:9c:00
v20            00:0c:29:08:04:a0  DR        vtep.32769        192.168.100.13
v20            02:05:86:d9:1b:00  DR        vtep.32769        192.168.100.13
```

Referring to the exhibit, why is the active source field blank for the entry that uses the 00:0c:29:e8:b7:39 MAC address?

- A. The ARP lookup for this host has failed.
- B. The EVPN route for this host does not have a valid next hop.
- C. This entry is associated with a multicast EVPN route.
- **D. The host for this entry is locally connected to leaf1.**

Answer: D

NEW QUESTION # 41

You are asked to deploy 100 QFX Series devices using ZTP. Each QFX5120 requires a different configuration. In this scenario, what are two components that you would configure on the DHCP server?

(Choose two.)

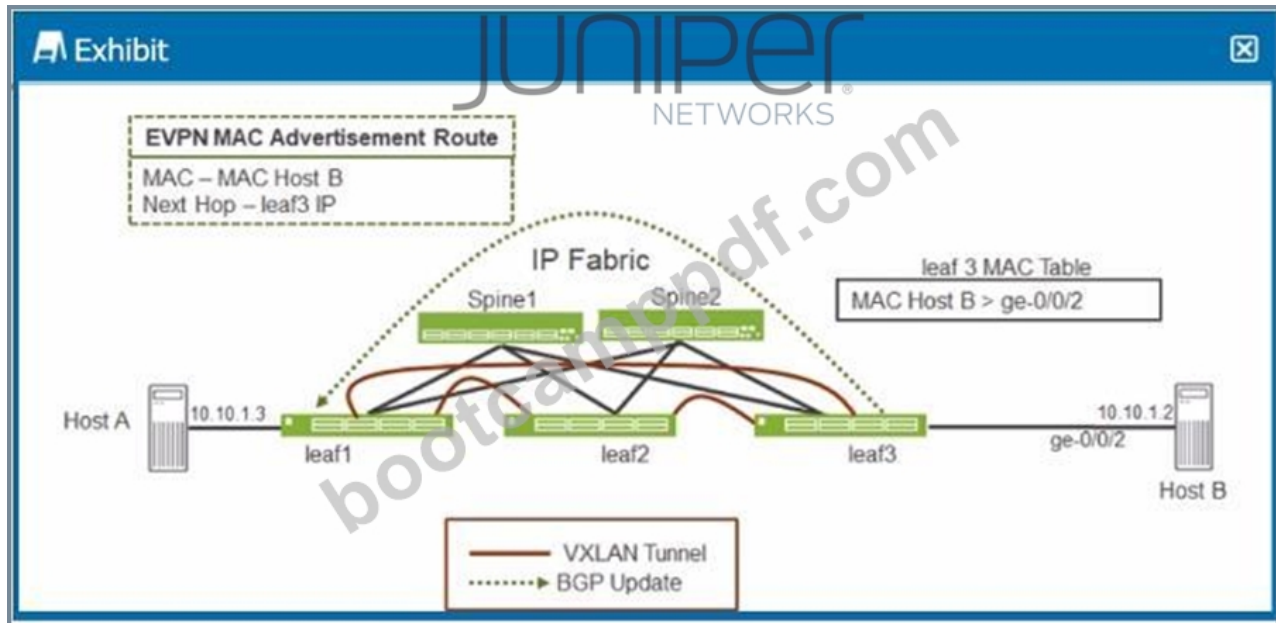
- A. the MAC address of the FTP server
- **B. the management IP address for each QFX5120**

- C. the MAC address for each OFX5120
- D. the IP address of the FTP server

Answer: B,C

NEW QUESTION # 42

Exhibit.



Referring to the exhibit, when Host A sends an ARP request for Host B's IP address, which Junos feature does leaf1 require to send an ARP response back to Host A without having to send a broadcast frame over the fabric?

- A. GARP
- B. proxy NDP
- C. DAD
- D. proxy ARP

Answer: D

Explanation:

* Scenario Overview:

* In the exhibit, Host A is trying to resolve Host B's IP address (10.10.1.2) through ARP (Address Resolution Protocol). Normally, an ARP request would be broadcasted over the network, and the host owning the IP address (Host B) would respond.

* Role of Proxy ARP:

* Option A: Proxy ARP allows a router or switch (in this case, leaf1) to respond to ARP requests on behalf of another host. Leaf1, knowing the MAC address of Host B through the EVPN MAC advertisement, can reply to Host A's ARP request directly without broadcasting the request across the entire network fabric. This feature reduces unnecessary traffic and increases network efficiency.

Conclusion:

* Option A: Correct-Proxy ARP enables leaf1 to respond to Host A's ARP request for Host B's IP without broadcasting over the IP fabric, thus providing the ARP response locally.

NEW QUESTION # 43

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