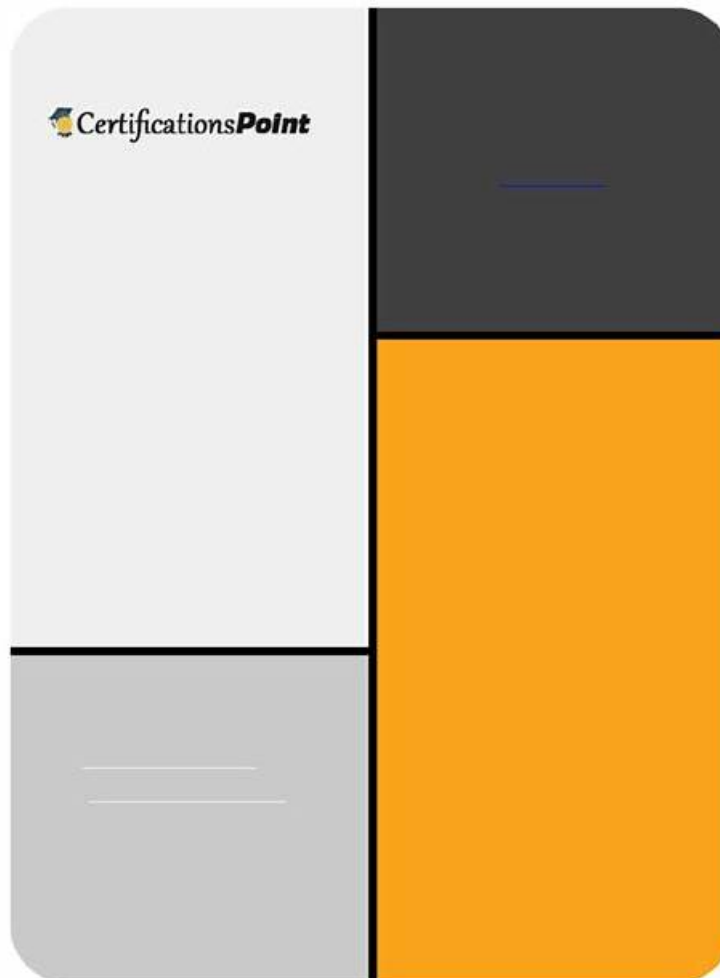


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## Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q33-Q38):

### NEW QUESTION # 33

A local VTEP has two ECMP paths to a remote VTEP.

Which two statements are correct when load balancing is enabled in this scenario? (Choose two.)

- A. The destination port in the UDP header is used to load balance VXLAN traffic.
- **B. The source port in the UDP header is used to load balance VXLAN traffic.**
- C. The inner packet fields are not used in the hash for load balancing.
- **D. The inner packet fields are used in the hash for load balancing.**

**Answer: B,D**

Explanation:

The source port in the UDP header is used to load balance VXLAN traffic: In an ECMP (Equal-Cost Multi-Path) scenario with VXLAN, the source port in the UDP header is one of the fields used to hash the traffic and determine which path to use. This helps distribute traffic across multiple equal-cost paths between VTEPs.

The inner packet fields are used in the hash for load balancing: For VXLAN traffic, the inner packet fields (such as the inner source and destination IP addresses, and sometimes the inner VLAN) are included in the hash calculation to determine the forwarding path. This allows for more effective load balancing across the available paths.

### NEW QUESTION # 34

Which statement is correct about a collapsed fabric EVPN-VXLAN architecture?

- A. It supports multiple vendors in the fabric as long as all the spine devices are Juniper devices deployed with L2 VTEPs
- **B. Border gateway functions occur on border leaf devices.**
- C. Using Virtual Chassis at the leaf layer increases resiliency.
- D. Fully meshed back-to-back links are needed between the spine devices.

**Answer: B**

Explanation:

Border gateway functions occur on border leaf devices: In a collapsed fabric EVPN-VXLAN architecture, the border leaf devices are responsible for interconnecting the data center to external networks (such as the WAN or other data centers). These devices perform the border gateway functions, such as handling routing and bridging for external communication.

### NEW QUESTION # 35

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

**Answer: C,D**

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 # 36

An IP fabric with EBGP configured in the overlay uses a different AS number for each node in the fabric.

Which two benefits does this configuration have over using a single AS scheme? (Choose two.)

- A. There is more TCAM space for AS numbers.
- **B. It avoids the use of route reflectors.**
- C. There are fewer BGP peers.
- **D. It provides more efficient BGP path selection.**

**Answer: B,D**

Explanation:

Using a different AS number for each node in an EBGP overlay eliminates the need for route reflectors since EBGP inherently prefers routes learned from external ASes over internal routes, ensuring efficient route propagation without additional configuration. This setup also enhances BGP path selection by leveraging AS\_PATH attributes to prevent routing loops and ensure optimal traffic flow across the fabric.

### NEW QUESTION # 37

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

**Answer: B**

Explanation:

For high-performance AI workloads requiring speeds of 400 Gbps or more, a pure Layer 3 IP fabric using EBGP underlay routing is typically deployed for scalability and efficiency. This avoids the complexities of Layer 2 VLANs and minimizes oversubscription. EBGP-based IP fabrics are common in modern data centers to provide large-scale, scalable, and high-bandwidth connectivity between leaves and spines with VXLAN or other overlays as appropriate but without mandatory Layer 2 VLANs. EBGP-based IP fabrics typically provide a pure Layer 3 routing underlay that scales easily with high port speeds such as 400Gbps.

### NEW QUESTION # 38

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