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Question: 1

Leaf and spine data centers are used to better accommodate which type of traffic?

- A. north-east
- B. east-west
- C. north-west
- D. south-east

Answer: B

Explanation:

In modern data centers, the shift toward leaf-spine architectures is driven by the need to handle increased east-west traffic, which is traffic between servers within the same data center. Unlike traditional hierarchical data center designs, where most traffic was "north-south" (between users and servers), modern applications often involve server-to-server communication (east-west) to enable services like distributed databases, microservices, and virtualized workloads.

Leaf-Spine Architecture:

Leaf Layer: This layer consists of switches that connect directly to servers or end-host devices. These switches serve as the access layer.

Spine Layer: The spine layer comprises high-performance switches that provide interconnectivity between leaf switches. Each leaf switch connects to every spine switch, creating a non-blocking fabric that optimizes traffic flow within the data center.

East-West Traffic Accommodation:

In traditional three-tier architectures (core, aggregation, access), traffic had to traverse multiple layers, leading to bottlenecks when servers communicated with each other. Leaf-spine architectures address this by creating multiple equal-cost paths between leaf switches and the spine. Since each leaf switch connects directly to every spine switch, the architecture facilitates quick, low-latency communication between servers, which is essential for east-west traffic flows.

Juniper's Role:

Juniper Networks provides a range of solutions that optimize for east-west traffic in a leaf-spine architecture, notably through:

QFX Series Switches: Juniper's QFX series switches are designed for the leaf and spine architecture, delivering high throughput, low latency, and scalability to accommodate the traffic demands of modern data centers.

EVPN-VXLAN: Juniper uses EVPN-VXLAN to create a scalable Layer 2 and Layer 3 overlay network across the data center. This overlay helps enhance east-west traffic performance by enabling network segmentation and workload mobility across the entire fabric.

Key Features That Support East-West Traffic:

Equal-Cost Multipath (ECMP): ECMP enables the use of multiple paths between leaf and spine switches, balancing the traffic and preventing any one path from becoming a bottleneck. This is crucial in handling the high volume of east-west traffic.

Low Latency: Spine switches are typically high-performance devices that minimize the delay between

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q66-Q71):

NEW QUESTION # 66

Which statement is correct about a five-stage IP fabric topology?

- A. There is a maximum of five hops between any end-devices
- B. There is a maximum of three hops between any end-devices
- C. They are typically deployed in small to medium data centers
- D. They are commonly referred to as interconnected data centers

Answer: A

NEW QUESTION # 67

By default, which two statements are correct about BGP advertisements? (Choose two.)

- A. BGP peers advertise routes received from IBGP peers to other IBGP peers.
- B. BGP peers advertise routes from EBGP peers to other IBGP peers using its own address as the next hop.
- C. BGP peers advertise routes from IBGP peers to EBGP peers using its own address as the next hop.
- D. BGP peers advertise routes received from EBGP peers to other IBGP peers.

Answer: C,D

Explanation:

BGP (Border Gateway Protocol) has specific rules for route advertisement between peers.

Step-by-Step Breakdown:

EBGP to IBGP Route Propagation:

BGP peers advertise routes learned from EBGP peers to IBGP peers within the same AS. This ensures that routes learned from external networks are propagated internally within the AS.

IBGP to EBGP Route Propagation:

Routes learned from IBGP peers can be advertised to EBGP peers, but when advertising these routes, the router uses its own IP address as the next hop.

IBGP Split Horizon:

By default, IBGP peers do not advertise routes learned from one IBGP peer to another IBGP peer. This rule (IBGP split horizon) prevents routing loops within an AS.

Juniper Reference:

BGP Advertisement Rules: Junos adheres to BGP standards, where IBGP peers do not propagate routes to other IBGP peers, but EBGP peers receive IBGP routes with the advertising router as the next hop.

NEW QUESTION # 68

Which of the following is an important consideration when configuring BFD?

- A. Disabling all other failure detection mechanisms
- B. Using the same BFD interval on all devices in the network
- C. Setting a very high multiplier to avoid false positives
- D. Adjusting the BFD interval and multiplier according to network needs

Answer: D

NEW QUESTION # 69

Which LSA types are associated with OSPF? (Choose three)

- A. Router LSA (Type 1)
- B. Network LSA (Type 2)
- C. Summary LSA (Type 3)
- D. External LSA (Type 5)

Answer: A,B,C

NEW QUESTION # 70

Load balancing in routing is used to:

- A. Distribute traffic evenly across multiple paths.
- B. Compress data to improve transmission speed.
- C. Encrypt data packets.
- D. Automatically update routing tables.

Answer: A

NEW QUESTION # 71

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