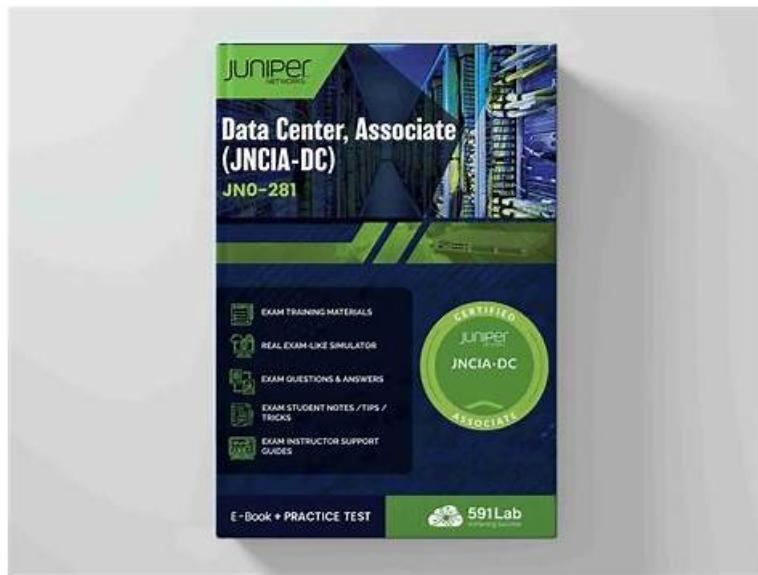


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## **Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q192-Q197):**

### **NEW QUESTION # 192**

What are two requirements for an IP fabric? (Choose two.)

- A. a Layer 2 switching protocol
- B. a single connection between each leaf
- **C. a single connection between each spine and leaf**
- D. a Layer 3 routing protocol

**Answer: C,D**

Explanation:

An IP fabric is a network architecture commonly used in data centers to provide scalable, high-throughput connectivity using a spine-leaf topology.

Step-by-Step Breakdown:

Layer 3 Routing Protocol:

An IP fabric relies on a Layer 3 routing protocol, typically BGP or OSPF, to provide routing between the leaf and spine switches. This ensures efficient traffic forwarding across the network. Single Connection Between Spine and Leaf.

In an IP fabric, each leaf switch connects to every spine switch with a single connection. This ensures that traffic between any two leaf switches can travel through the spine layer in just two hops.

Juniper

Reference: Spine-Leaf Design: Juniper's IP fabric implementations are designed for scalability and low-latency routing, often using protocols like BGP for Layer 3 control.

### NEW QUESTION # 193

What is the default route preference of a static route in the Junos OS?

- A. 0
- B. 1
- C. 2
- D. 3

**Answer: A**

Explanation:

In Junos OS, the default route preference for a static route is 5. Route preference values are used to determine which route should be installed in the routing table when multiple routes to the same destination are available.

Step-by-Step Breakdown:

Static Route Preference:

A static route, by default, has a preference of 5, making it a highly preferred route. Lower preference values are more preferred in Junos, meaning static routes take precedence over most dynamic routing protocol routes, such as OSPF (preference 10) or BGP (preference 170).

Route Preference:

Route preference is a key factor in the Junos routing decision process. Routes with lower preference values are preferred and installed in the forwarding table.

Juniper

Reference: Static Routes: In Junos, the default preference for static routes is 5, making them more preferred than most dynamic routes.

### NEW QUESTION # 194

When a MAC limiting violation occurs, the switch performs which two actions by default? (Choose two.)

- A. The port is disabled.
- B. No logging takes place.
- C. It drops the packet.
- D. It causes Layer 2 loops.

**Answer: A,C**

Explanation:

When a MAC limiting violation occurs on a Juniper switch, the switch will perform the following actions by default:

Step-by-Step Breakdown:

Port Disabled:

When the number of MAC addresses on an interface exceeds the configured limit, the port is automatically disabled to prevent further violations. This is a protective mechanism to prevent MAC address flooding.

Packet Dropped:

Additionally, packets from the violating MAC address are dropped to prevent any further communication from that address. This ensures that only valid MAC addresses are allowed to communicate through the interface.

Example Configuration:

```
set ethernet-switching-options secure-access-port interface <interface-name> mac-limit 5
```

If more than five MAC addresses are

learned, the port is disabled, and excess packets are dropped.

Juniper

Reference: MAC Limiting: When the switch detects a MAC limiting violation, it disables the port and drops further packets from the violating MAC addresses to maintain network security.

### NEW QUESTION # 195

A switch receives a frame with a MAC address of FF-FF-FF-FF-FF-FF. Which action will the switch take on this frame?

- A. It will flood it out of all interfaces, except for the directly connected VLAN.
- B. It will flood it out of all interfaces, except for the ingress interface.
- C. It will flood it out of all interfaces.
- D. It will flood it out of all interfaces, except for the next-hop interface.

**Answer: B**

Explanation:

A MAC address of FF-FF-FF-FF-FF-FF is the Ethernet broadcast address. When a switch receives a frame with this destination MAC address, it is required to forward the frame to all interfaces except the one it was received on.

Step-by-Step Breakdown:

Broadcast Frame Handling:

When a frame with the broadcast MAC address is received, the switch will flood it out of all active ports that belong to the same VLAN as the incoming frame. The broadcast frame is not sent back out of the ingress interface (the interface where the frame was originally received).

Purpose of Flooding:

Broadcasting is used to ensure that the frame reaches all devices within the broadcast domain (all devices within the same VLAN), which may not have a specific entry for the MAC address in their MAC address table.

Juniper Reference:

Layer 2 Frame Forwarding: Juniper switches flood broadcast frames to all ports in the same VLAN, except the port the frame was received on.

### NEW QUESTION # 196

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

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

**Answer: D**

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 leaf switches, which improves the efficiency of server-to-server communications.

Scalability: As the demand for east-west traffic grows, adding more leaf and spine switches is straightforward, maintaining consistent performance without redesigning the entire network.

In summary, the leaf-spine architecture is primarily designed to handle the increase in east-west traffic within data centers, and Juniper provides robust solutions to enable this architecture through its switch platforms and software solutions like EVPN-VXLAN.

## NEW QUESTION # 197

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