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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 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.

2.When troubleshooting an OSPF neighborship, you notice that the router stopped at the ExStart state.

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Juniper JN0-281 Exam Syllabus Topics:

Topic	Details
Topic 1	• High Availability: This section of the exam measures the skills of a Data Center Reliability Engineer and covers strategies to ensure continuous network availability. It includes features like Link Aggregation Groups (LAG), Graceful Restart (GR), Bidirectional Forwarding Detection (BFD), and Virtual Chassis. It also provides a basic understanding of how to configure, monitor, and troubleshoot each of these high-availability components to maintain resilient network performance.

Topic 2	• Data Center Architectures: This section of the exam measures the skills of a Data Center Architect and covers foundational knowledge about various data center designs. It includes traditional multitier architectures as well as more modern IP fabric architectures using spine-leaf topologies. The section also touches on Layer 2 and Layer 3 strategies for forwarding traffic, the differences between overlay and underlay networks, and introduces Ethernet VPN–Virtual Extensible LAN (EVPN-VXLAN), explaining its basic purpose and role in data center environments.
Topic 3	• Protocol-Independent Routing: This section of the exam measures the skills of a Routing Engineer and covers routing features that function independently of any specific protocol. It includes static, aggregate, and generated routes, along with the concept of martian addresses. Routing instances and Routing Information Base (RIB) groups are introduced, as well as techniques like load balancing and filter-based forwarding. Configuration, monitoring, and troubleshooting aspects of these routing components are also covered in this section.
Topic 4	• Layer 2 Switching and VLANs: This section of the exam measures the skills of a Network Support Engineer and covers the essential concepts of Layer 2 switching operations within Junos OS. It includes an overview of Ethernet switching and bridging, providing an understanding of how Layer 2 networks function. The section also introduces VLAN concepts, focusing on port modes, VLAN tagging methods, and the purpose of Integrated Routing and Bridging (IRB). It further explores the practical side by addressing how to configure, monitor, and troubleshoot both Layer 2 switching and VLANs.
Topic 5	• Data Center Routing Protocols BGP • OSPF: This section of the exam measures skills of a Network Operations Specialist and covers the operation and key concepts of the OSPF protocol. It explains elements such as the link-state database, OSPF packet types, and router IDs, including how adjacencies and designated routers work within areas. The section then transitions to BGP, outlining its basic operations, message types, attributes, and the path selection process. It also discusses both IBGP and EBGP roles. Lastly, the section reviews how to configure, monitor, and troubleshoot OSPF and BGP using routing policies and various tools.

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Juniper Data Center, Associate (JNCIA-DC) Sample Questions (Q90-Q95):

NEW QUESTION # 90
In the context of Layer 2 switching, what does RSTP stand for?

- A. Routing Switch Transport Protocol
- B. Resilient Switching Transport Protocol
- C. Redundant Switching Tree Protocol
- D. Rapid Spanning Tree Protocol

Answer: D

NEW QUESTION # 91
Why is EVPN often used in conjunction with VXLAN in modern data centers?

- A. To enable direct Internet access for applications.

- B. For providing Layer 2 connectivity over a Layer 3 fabric.
- C. To physically separate different customer environments.
- D. To increase the physical bandwidth of the underlying network.

Answer: B

NEW QUESTION # 92

Referring to the exhibit, how many milliseconds will pass before the BGP neighbor is considered dead?

```
[edit]
user@router# show protocols bgp
group internal-peers {
    type internal;
    local-address 192.168.6.5;
    export send-direct;
    bfd-liveness-detection {
        minimum-interval 1000;
    }
    neighbor 192.168.6.4;
    neighbor 192.168.40.4;
}
```

- A. 2000ms
- B. 1000ms
- C. 9000ms
- D. 3000ms

Answer: D

NEW QUESTION # 93

Which OSPF packet types are used to establish and maintain neighbor relationships? (Choose two)

- A. Database Description packets
- B. Link State Request packets
- C. Link State Update packets
- D. Hello packets

Answer: A,D

NEW QUESTION # 94

Referring to the exhibit, which statement is correct?

```
{master:0}
user@switch> show vlans

Routing instance    VLAN name        Tag        Interfaces
default-switch      default          1
                                                ge-0/0/0.0*
                                                ge-0/0/1.0

default-switch      GREEN-10         10
                                                ge-0/0/12.0*
                                                ge-0/0/8.0*

default-switch      BLUE-20          20
                                                ge-0/0/12.0*
                                                ge-0/0/9.0*
```

- A. The default VLAN is a user defined VLAN name.
- B. The asterisk indicates that the interface is active.
- C. The ge-0/0/0 interface has been explicitly assigned to a VLAN named default.
- D. The ge-0/0/12 interfaces is an access port.

Answer: B

NEW QUESTION # 95

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