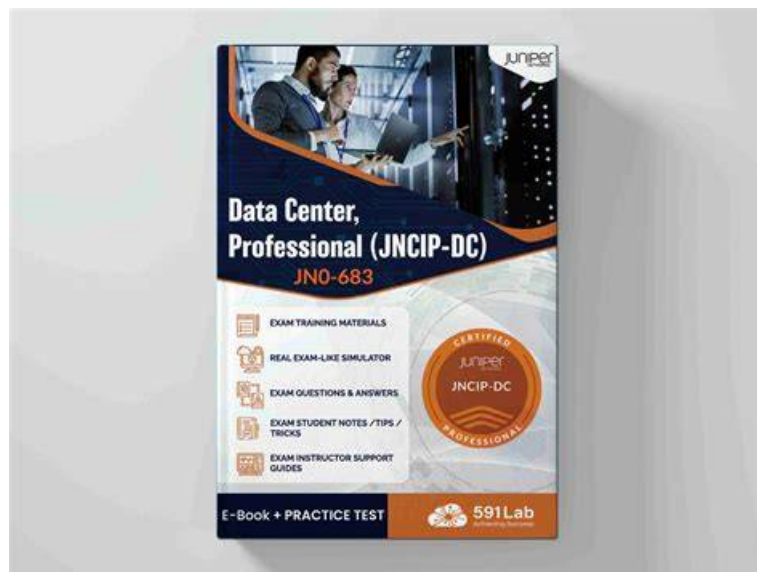


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## Juniper JN0-683 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                     |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>• <b>VXLAN:</b> 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.</li></ul>                                                      |
| Topic 2 | <ul style="list-style-type: none"><li>• <b>Layer 3 Fabrics:</b> 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.</li></ul>                |
| Topic 3 | <ul style="list-style-type: none"><li>• <b>EVPN-VXLAN Signaling:</b> 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.</li></ul>                                    |
| Topic 4 | <ul style="list-style-type: none"><li>• <b>Data Center Multitenancy and Security:</b> This section tests knowledge of single-tenant and multitenant data center setups. Candidates such as Data Center Professionals are evaluated on ensuring tenant traffic isolation at both Layer 2 and Layer 3 levels in shared infrastructure environments.</li></ul> |
| Topic 5 | <ul style="list-style-type: none"><li>• <b>Data Center Interconnect:</b> 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.</li></ul>                                        |

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### Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q57-Q62):

#### NEW QUESTION # 57

Click the Exhibit button. You want to enable the border leaf device to send Type 5 routes of local networks to the border leaf device in another data center.

What must be changed to the configuration shown in the exhibit to satisfy this requirement?

```

routing-instances {
  tenant1 {
    instance-type vrf;
    routing-options {
      auto-export {
        family inet {
          unicast;
        }
      }
    }
    protocols {
      evpn {
        ip-prefix-routes {
          advertise direct-nexthop;
          vni 10010;
        }
      }
    }
    interface lo0.10;
    route-distinguisher 192.168.100.14:5001;
    vrf-target target:65000:1;
  }
}

```

- A. Change: 5001 in the route-distinguisher to: 10010.
- **B. Add encapsulation vxlan to the evpn hierarchy.**
- C. Add a VLAN configuration with an 13-interface to the tenant1 routing instance.
- D. Move vrf-target target: 65000:1 to the evpn hierarchy.

**Answer: B**

Explanation:

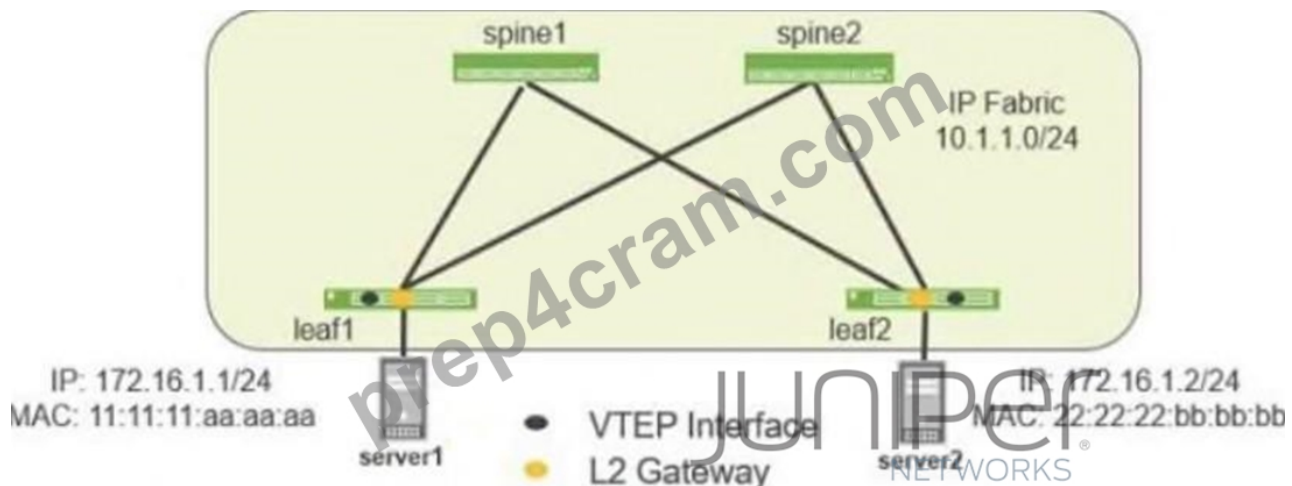
For EVPN Type 5 route advertisement and full inter-data center connectivity, the EVPN configuration must specify the encapsulation type, especially if VXLAN is used as the data-plane overlay.

The parameter encapsulation vxlan must be added under the protocols evpn hierarchy to ensure border leaf devices can advertise and exchange IP prefix routes (Type 5) properly between data centers.

The option to move vrf-target under the EVPN hierarchy is not valid, as that statement is only supported within the routing instance or vni-options section, but not directly under protocols evpn.

#### NEW QUESTION # 58

Click the Exhibit button.



Referring to the exhibit, which two statements are correct? (Choose two.)

- A. Each leaf device acts as a bridge between the VNIs and allows traffic from one VNI to be forwarded to a different VNI.
- **B. Each leaf device encapsulates Layer 2 frames in VXLAN packets and performs Layer 3 forwarding on the Layer 3 IP fabric.**
- C. Each leaf device replaces the source MAC address of the original frame with the MAC address of the gateway interface.
- **D. Each leaf device removes the VXLAN header and forwards the Layer 2 frame with original source and destination MAC address.**

**Answer: B,D**

Explanation:

The leaf switches function as VTEPs: they encapsulate customer Layer 2 frames into VXLAN over the routed IP underlay, which then forwards the packets based on the outer IP header.

When the VXLAN packet reaches the destination leaf, that leaf decapsulates the VXLAN header and forwards the original Layer 2 frame toward the attached server, preserving the original source and destination MAC addresses.

#### NEW QUESTION # 59

You are preparing an sFlow monitoring system configuration.

In this scenario, what Information will be included in the datagram sent to the sFlow collector? (Choose two.)

- **A. the source and destination VLAN for sampled packets**
- **B. the interface through which the packets entered the agent**
- C. the sending device's serial number
- D. the CRC from the sampled packet

**Answer: A,B**

Explanation:

\* Understanding sFlow Monitoring:

\* sFlow is a packet sampling technology used to monitor traffic in a network. It sends sampled packet data and interface counters to an sFlow collector, which analyzes the traffic patterns.

\* Information Included in sFlow Datagram:

\* Option A: The datagram sent to the sFlow collector includes information about the interface through which the packets entered the agent (the switch or router). This is crucial for understanding where in the network the traffic was captured.

\* Option D: sFlow datagrams also include the source and destination VLAN for the sampled packets. This allows for detailed analysis of the traffic flow within different VLANs.

Conclusion:

\* Option A: Correct- The ingress interface is included in the sFlow datagram.

\* Option D: Correct- The source and destination VLANs are also included, providing context for the sampled traffic.

#### NEW QUESTION # 60

You are asked to build redundant gateways in your EVPN- VXLAN environment, but you must conserve address space because these gateways must span across seven PES. What should you implement on the PEs to satisfy these requirements?

- A. Use IRB interfaces with different IP addresses and the same VLA.
- **B. Use IRB interfaces with the same IP and MAC address.**
- C. Use IRB interfaces with the same IP and VLA.
- D. Use IRB interfaces with the same IP address and different MAC addresses.

**Answer: B**

Explanation:

\* Redundant Gateways in EVPN-VXLAN:

\* In an EVPN-VXLAN environment, providing redundant gateway functionality typically involves the use of Anycast Gateway. This allows multiple PEs (Provider Edge devices) to use the same IP address and MAC address for the gateway, enabling seamless failover and redundancy without IP conflicts.

\* Conserving Address Space:

\* Using the same IP address across multiple PEs conserves address space because only one IP address is needed for the gateway function, regardless of the number of PEs. The shared MAC address ensures that ARP resolution and forwarding behavior are consistent across all the PEs.

Conclusion:

\* Option C: Correct-Using IRB interfaces with the same IP and MAC address across all PEs satisfies the need for redundancy while conserving address space.

Options A, B, and D introduce unnecessary complexity or do not fully utilize the efficient Anycast Gateway approach, which is best practice for conserving IP space and providing redundancy.

## NEW QUESTION # 61

You are asked to set up an IP fabric that supports AI or ML workloads. You have chosen to use lossless Ethernet in this scenario, which statement is correct about congestion management?

- A. ECN marks packets based on WRED settings.
- B. Only the source and destination devices need ECN enabled.
- **C. The switch experiencing the congestion notifies the source device.**
- D. ECN is negotiated only among the switches that make up the IP fabric for each queue.

**Answer: C**

Explanation:

\* Understanding Lossless Ethernet and Congestion Management:

\* Lossless Ethernet is crucial for AI and ML workloads, where packet loss can significantly degrade performance. To implement lossless Ethernet, congestion management protocols like ECN (Explicit Congestion Notification) are used.

\* Role of ECN in Congestion Management:

\* Option A: In an IP fabric that supports lossless Ethernet, when a switch experiences congestion, it can mark packets using ECN. This marking notifies the source device of the congestion, allowing the source to reduce its transmission rate, thereby preventing packet loss.

Conclusion:

\* Option A: Correct-The switch experiencing congestion notifies the source device via ECN marking.

## NEW QUESTION # 62

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