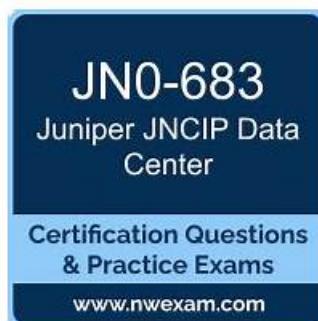


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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q57-Q62):

NEW QUESTION # 57

You are using a single tenant data center with a bridged overlay architecture. In this scenario, how do hosts of the different virtual networks communicate with each other?

- A. off-fabric using an external device

- B. using anycast gateway addresses configured on the leaf devices
- C. using EVPN Type 5 routes
- D. using virtual gateway addresses configured on the spine

Answer: A

Explanation:

* Understanding Bridged Overlay Architecture:

* In a single-tenant data center using a bridged overlay architecture, virtual networks (VLANs) are typically isolated within the fabric, with traffic between these VLANs handled outside the fabric.

* Communication Between Different Virtual Networks:

* A. off-fabric using an external device: This is correct. In many bridged overlay architectures, communication between different virtual networks is handled off-fabric, often using an external router or firewall that connects the different VLANs. The fabric itself primarily provides Layer 2 connectivity within each VLAN, leaving inter-VLAN routing to be handled externally.

Data Center References:

* This design is common in smaller or simpler data center environments where a single tenant does not require complex on-fabric routing and prefers to handle inter-VLAN routing through dedicated devices.

NEW QUESTION # 58

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.

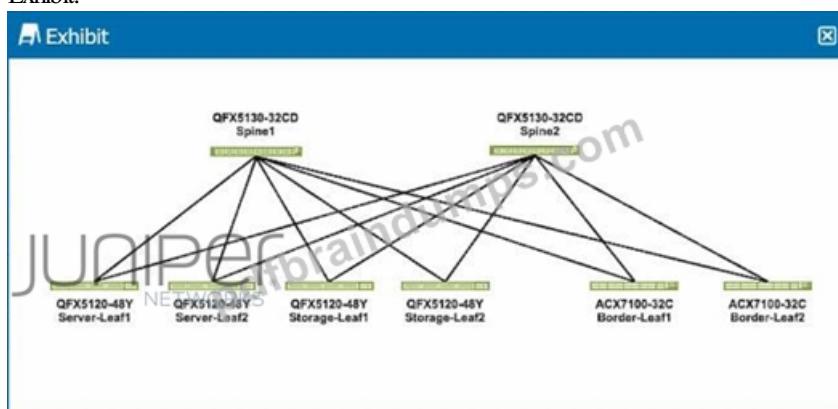
Conclusion:

* 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 # 59

Exhibit.



You are deploying a VXLAN overlay with EVPN as the control plane in an ERB architecture.

Referring to the exhibit, which three statements are correct about where the VXLAN gateways will be placed?

(Choose three.)

- A. All leaf devices will have L3 VXLAN gateways.
- B. Spine devices will have no VXLAN gateways.
- C. Only the border and leaf devices will have L3 VXLAN gateways.
- D. Only the spine devices will have L2 VXLAN gateways.
- E. All leaf devices will have L2 VXLAN gateways.

Answer: A,B,E

Explanation:

* Understanding ERB Architecture:

* ERB (Edge Routed Bridging) architecture is a network design where the routing occurs at the edge (leaf devices) rather than in the spine devices. In a VXLAN overlay network with EVPN as the control plane, leaf devices typically act as both Layer 2 (L2) and Layer 3 (L3) VXLAN gateways.

* Placement of VXLAN Gateways:

* Option B: All leaf devices will have L2 VXLAN gateways to handle the bridging of VLAN traffic into VXLAN tunnels.

* Option C: All leaf devices will also have L3 VXLAN gateways to route traffic between different VXLAN segments (VNIs) and external networks.

* Option E: Spine devices in an ERB architecture generally do not function as VXLAN gateways.

They primarily focus on forwarding traffic between leaf nodes and do not handle VXLAN encapsulation/decapsulation.

Conclusion:

* Option B: Correct - All leaf devices will have L2 VXLAN gateways.

* Option C: Correct - All leaf devices will have L3 VXLAN gateways.

* Option E: Correct - Spine devices will not act as VXLAN gateways

NEW QUESTION # 60

Exhibit.



A Exhibit

```
user@leaf1> show evpn database
Instance: evpn-1
VLAN  DomainId  MAC address      Active source          Timestamp      IP address
  10001    00:1c:73:00:00:01  irb.4000          Apr 16 11:46:14  10.4.4.1
  10001    40:00:dc:01:00:01  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14  10.4.4.2
  10001    40:00:dc:01:00:02  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14  10.4.4.3
  10001    40:00:dc:01:00:03  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14  10.4.4.4
  10001    40:00:dc:01:00:04  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14  10.4.4.5
  10001    40:00:dc:01:00:05  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14  10.4.4.6
  10001    44:11:01:00:00:01  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14
  10001    44:11:01:00:00:02  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14
  10001    44:11:01:00:00:03  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14
  10001    44:11:01:00:00:04  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14
  10001    44:11:01:00:00:05  00:02:00:00:00:04:00:00:04  Apr 16 11:46:14
  10001    44:12:01:00:00:01  00:02:00:00:00:03:00:00:03  Apr 16 11:46:14
  10001    44:12:01:00:00:02  00:02:00:00:00:03:00:00:03  Apr 16 11:46:14
  10001    44:12:01:00:00:03  00:02:00:00:00:03:00:00:03  Apr 16 11:46:14
  10001    44:12:01:00:00:04  00:02:00:00:00:03:00:00:03  Apr 16 11:46:14
  10001    44:12:01:00:00:05  00:02:00:00:00:03:00:00:03  Apr 16 11:46:14
  10002    00:1c:73:00:00:01  irb.300           Apr 16 11:46:14  10.3.3.1
  10002    30:00:dc:01:00:01  00:02:00:00:00:01:00:00:01  Apr 16 11:46:14
  10002    30:00:dc:01:00:02  00:02:00:00:00:01:00:00:01  Apr 16 11:46:14
  10002    30:00:dc:01:00:03  00:02:00:00:00:01:00:00:01  Apr 16 11:46:14
  10002    30:00:dc:01:00:04  00:02:00:00:00:01:00:00:01  Apr 16 11:46:14
```

The exhibit shows the truncated output of the show evpn database command.

Given this output, which two statements are correct about the host with MAC address 40:00:dc:01:00:04?

(Choose two.)

- A. The host is located on VN110002.
- B. The host is assigned IP address 10.4.4.5.
- C. The host is originating from irb.300.
- D. The host is originating from an ESI LAG.

Answer: B,D

Explanation:

* Understanding the Output:

* The show evpn database command output shows the MAC address, VLAN, active source, timestamp, and IP address associated with various hosts in the EVPN instance.

* Analysis of the MAC Address:

* Option A: The MAC address 40:00:dc:01:00:04 is associated with the IP address 10.4.4.5, as indicated by the output in the IP address column. This confirms that this host has been assigned the IP 10.4.4.5.

* Option D: The active source for the MAC address 40:00:dc:01:00:04 is listed as 00:02:00:00:00:04:00:04:00:04:00:04, which indicates that the host is connected via an ESI (Ethernet Segment Identifier) LAG (Link Aggregation Group). This setup is typically used in multi-homing scenarios to provide redundancy and load balancing across multiple physical links.

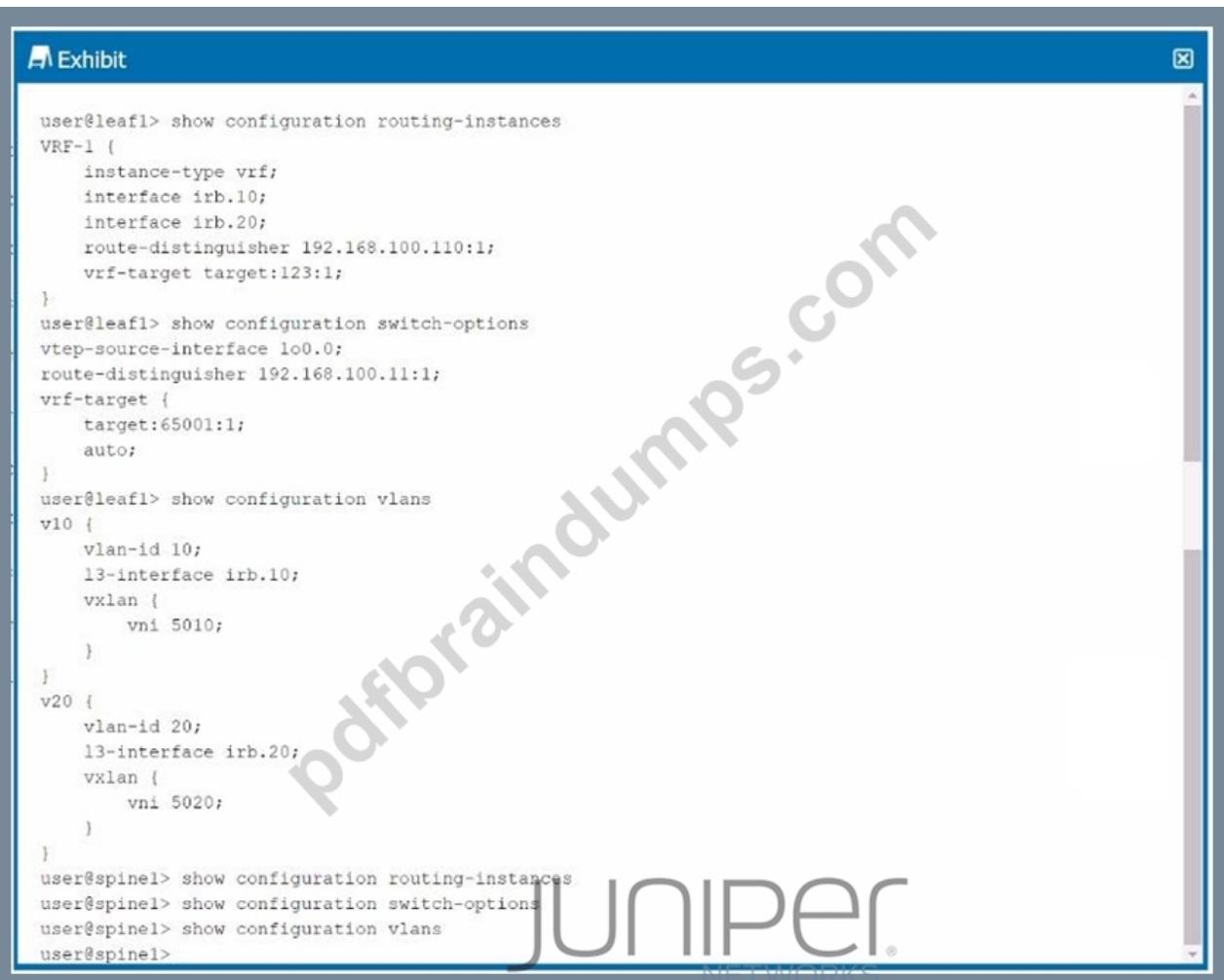
Conclusion:

* Option A: Correct - The host with MAC 40:00:dc:01:00:04 is assigned IP 10.4.4.5.

* Option D: Correct - The host is originating from an ESI LAG, as indicated by the active source value.

NEW QUESTION # 61

Exhibit.



```
user@leaf1> show configuration routing-instances
VRF-1 {
    instance-type vrf;
    interface irb.10;
    interface irb.20;
    route-distinguisher 192.168.100.110:1;
    vrf-target target:123:1;
}
user@leaf1> show configuration switch-options
vtep-source-interface lo0.0;
route-distinguisher 192.168.100.11:1;
vrf-target {
    target:65001:1;
    auto;
}
user@leaf1> show configuration vlans
v10 {
    vlan-id 10;
    l3-interface irb.10;
    vxlan {
        vni 5010;
    }
}
v20 {
    vlan-id 20;
    l3-interface irb.20;
    vxlan {
        vni 5020;
    }
}
user@spine1> show configuration routing-instances
user@spine1> show configuration switch-options
user@spine1> show configuration vlans
user@spine1>
```

Referring to the exhibit, which statement is true?

- A. An ERB architecture is being used.
- B. A PBB-EVPN architecture is being used.
- C. A CRB architecture is being used.
- D. An OTT architecture is being used.

Answer: A

Explanation:

* Understanding Network Architectures:

* ERB (Edge Routed Bridging) architecture involves routing at the network's edge (leaf nodes), while traffic between leaf nodes is switched. This is commonly used in VXLAN-EVPN setups.

* Analysis of the Exhibit:

* The exhibit shows configurations related to routing instances, VXLAN, and VLANs, with VNIs being used for each VLAN. This setup is characteristic of an ERB architecture where each leaf device handles Layer 3 routing for its connected devices.

Conclusion:

* Option B: Correct - The configuration shown corresponds to an ERB architecture where routing occurs at the network's edge (leaf devices).

NEW QUESTION # 62

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