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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	• Data Center Deployment and Management: This section assesses the expertise of data center networking professionals like architects and engineers, focusing on key deployment concepts. Topics include Zero-touch provisioning (ZTP), which automates device setup in data centers without manual input.
Topic 2	• Data Center Interconnect: 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.
Topic 3	• Layer 3 Fabrics: 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.

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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q91-Q96):

NEW QUESTION # 91

Why is a designated forwarder required in a multihomed CE-to-PE VXLAN environment using EVPN signalling?

- A. The designated forwarder is required to prevent a traffic storm from being received on multihomed hosts.
- B. The designated forwarder is required to prevent flooding of MAC addresses to multihomed hosts.
- C. The designated forwarder is required to prevent packets from looping between the PEs.
- **D. The designated forwarder is required to prevent duplicate packets from being received on multihomed hosts.**

Answer: D

Explanation:

* Understanding Multihomed CE-to-PE VXLAN Environment:

* In a VXLAN environment using EVPN signaling, multiple PEs (Provider Edge devices) can be connected to the same CE (Customer Edge device). This setup is referred to as multihoming, where a CE device has multiple connections to the network to ensure redundancy and load balancing.

* Role of the Designated Forwarder:

* The designated forwarder (DF) is a mechanism used in EVPN to manage the forwarding of broadcast, unknown unicast, and multicast (BUM) traffic in a multihomed environment. The DF is selected to ensure that only one of the PEs forwards this type of traffic to the CE, preventing loops and unnecessary duplicate packets.

* Avoiding Duplicate Packets:

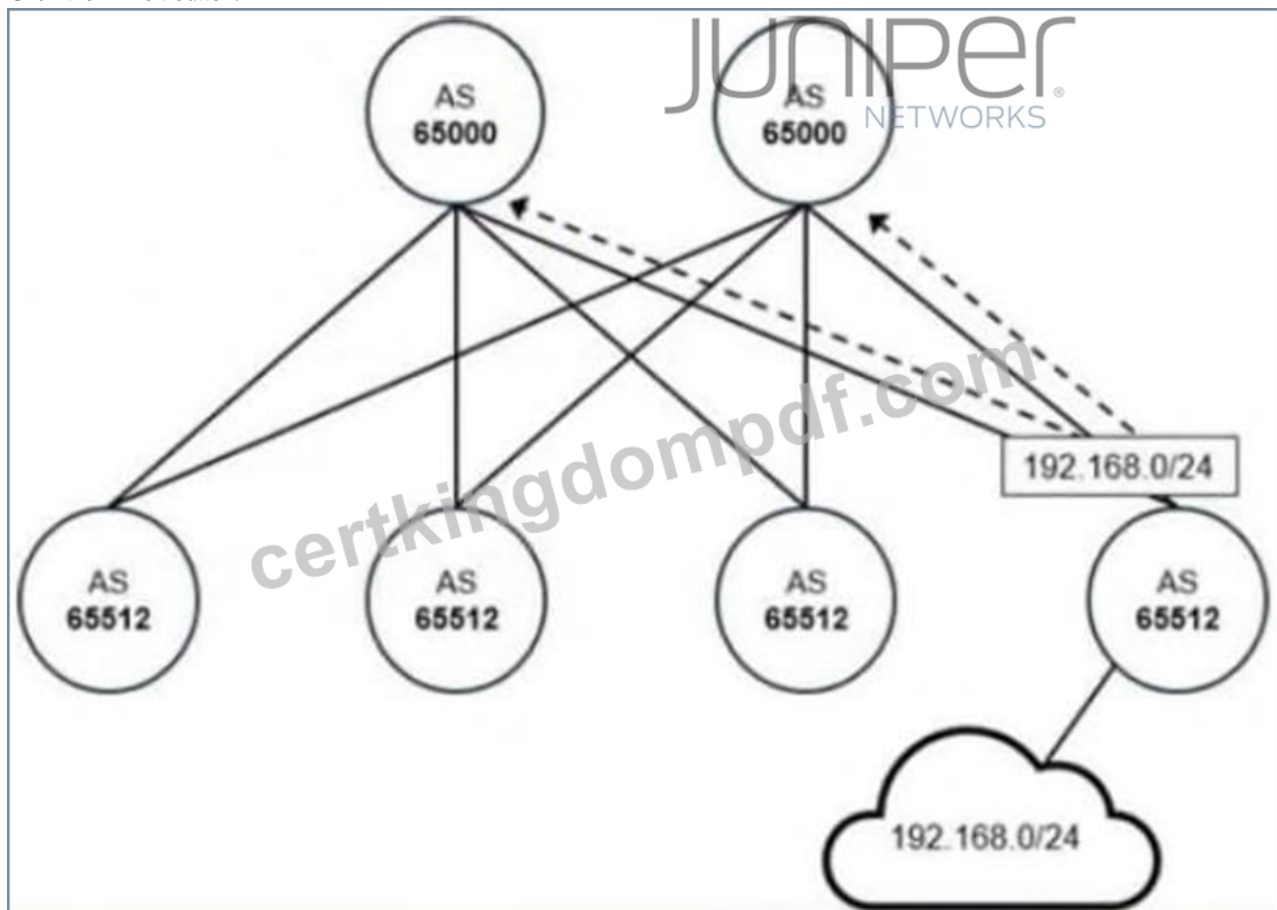
* Without a designated forwarder, all PEs connected to a multihomed CE could potentially forward the same packet to the CE, resulting in duplicate packets. This duplication can cause issues with packet processing on the CE, leading to inefficiencies and potential network problems.

Conclusion:

* Option D: Correct-The designated forwarder is essential to prevent duplicate packets from being received on multihomed hosts, ensuring that only one PE forwards BUM traffic to the CE.

NEW QUESTION # 92

Click the Exhibit button.



The 192.168.0.0/24 route is being advertised into your IP fabric by the leaf device in AS 65512. In this scenario, which two statements are correct? (Choose two.)

- A. By default, each spine device will not advertise this route to all other peer leaf devices.
- B. By default, both spine devices will reject the route learned from the leaf device.
- C. By default, both spine devices will accept and install the route learned from the leaf device.
- D. By default, each spine device will advertise this route to all other peer leaf devices.

Answer: A,C

Explanation:

The spines learn 192.168.0.0/24 from the leaf over an eBGP session, and Junos will accept and install received BGP routes by default. However, Junos does not advertise routes to BGP peers unless an export policy explicitly permits them, so the spines will not advertise that route onward to the other leaf peers by default.

NEW QUESTION # 93

Exhibit.



```
user@spine1# show protocols bgp group underlay
type external;
export Export-Directs;
local-as 65101;
multipath {
  multiple-as;
}
neighbor 172.16.1.1 {
  peer-as 65201;
}
neighbor 172.16.1.5 {
  peer-as 65203;
}
neighbor 172.16.1.3 {
  peer-as 65202;
}
user@spine1# show policy-options
policy-statement Export-Directs {
  term loopback {
    from {
      protocol direct;
      route-filter 192.168.100.0/24 orlonger;
    }
    then accept;
  }
}
```

Referring to the exhibit, the spine device has an underlay BGP group that is configured to peer with its neighbors' directly connected interfaces. Which two statements are true in this scenario? (Choose two.)

- A. Load balancing for the underlay is configured correctly.
- B. The multipath statement is required to establish the underlay BGP sessions.
- C. Load balancing for the underlay is not configured correctly.
- D. The multipath statement is not required to establish the underlay BGP sessions.

Answer: A,B

NEW QUESTION # 94

Which statement is correct about MAC mobility in an EVPN-VXLAN environment?

- A. MAC mobility is tracked using a sequence number carried in the EVPN Type 2 route's MAC Mobility extended community.
- B. MAC mobility requires manual reconfiguration of the VTEP when a host moves.
- C. MAC mobility is only supported when using a CRB overlay.

- D. MAC mobility disables ARP suppression for the moved host.

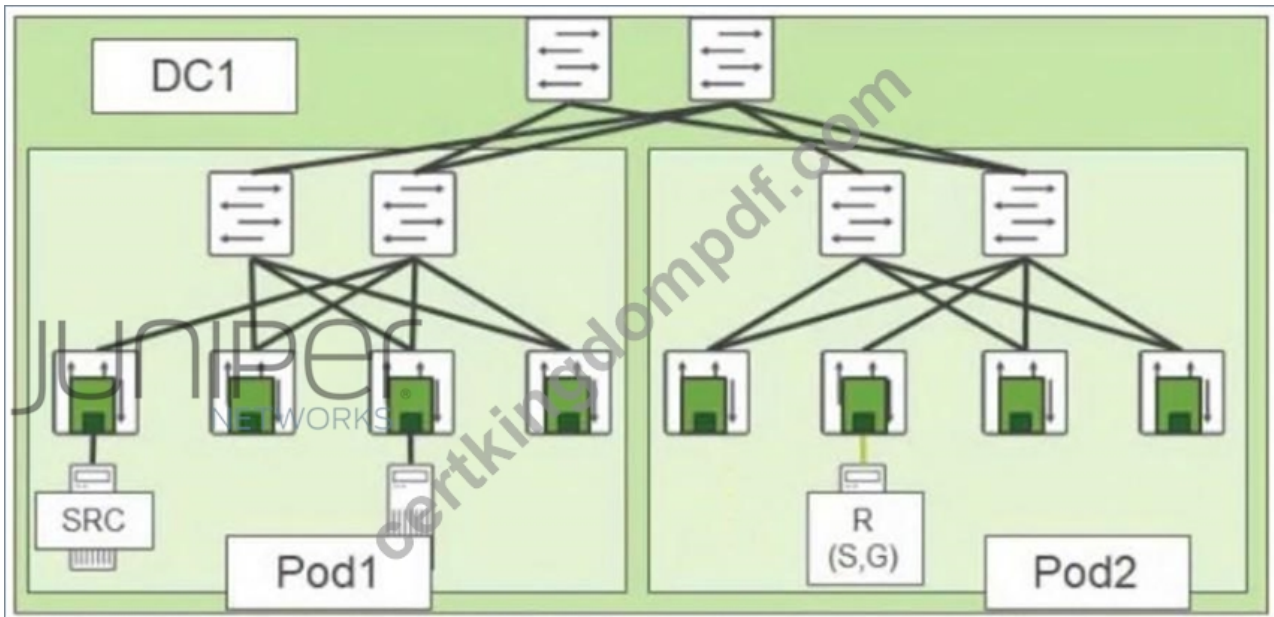
Answer: A

Explanation:

When a host moves from one VTEP to another, the newly attached VTEP advertises an updated EVPN Type 2 route containing a MAC Mobility extended community with an incremented sequence number. This allows other VTEPs in the fabric to recognize that the host has moved and update their forwarding tables accordingly, preventing stale MAC-to-VTEP mappings and MAC flapping.

NEW QUESTION # 95

Click the Exhibit button.



Referring to the exhibit, data center DC1 has two pods in the same broadcast domain. You want to forward multicast traffic to only one host that is interested in receiving the multicast traffic.

In this scenario, which EVPN route type would be required to accomplish this task?

- A. Type 6
- **B. Type 7**
- C. Type 5
- D. Type 8

Answer: B

Explanation:

Selective multicast forwarding (sending multicast only to receivers that joined a specific source/group) requires advertising receiver interest for an (S,G) flow in EVPN so the fabric builds a multicast forwarding state only toward the interested host, instead of flooding multicast broadly.

NEW QUESTION # 96

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