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Because the Data Center, Professional (JNCIP-DC) (JN0-683) test has a restricted time constraint, time management must be exercised to get success. Only with enough practice one can answer real Juniper JN0-683 Exam Questions in a given amount of time. It has created three formats to aid Juniper JN0-683 applicants in practicing and organizing their time for this aim.

Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • EVPN-VXLAN Signaling: 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.
Topic 2	<ul style="list-style-type: none"> • 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.
Topic 3	<ul style="list-style-type: none"> • 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.

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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q35-Q40):

NEW QUESTION # 35

A local VTEP has two ECMP paths to a remote VTEP.

Which two statements are correct when load balancing is enabled in this scenario? (Choose two.)

- A. The destination port in the UDP header is used to load balance VXLAN traffic.
- B. The inner packet fields are used in the hash for load balancing.
- C. The source port in the UDP header is used to load balance VXLAN traffic.
- D. The inner packet fields are not used in the hash for load balancing.

Answer: B,C

Explanation:

The source port in the UDP header is used to load balance VXLAN traffic: In an ECMP (Equal-Cost Multi-Path) scenario with VXLAN, the source port in the UDP header is one of the fields used to hash the traffic and determine which path to use. This helps distribute traffic across multiple equal-cost paths between VTEPs.

The inner packet fields are used in the hash for load balancing: For VXLAN traffic, the inner packet fields (such as the inner source and destination IP addresses, and sometimes the inner VLAN) are included in the hash calculation to determine the forwarding path. This allows for more effective load balancing across the available paths.

NEW QUESTION # 36

Exhibit.

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

Answer: B,C

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:

04:00:04:00:00:04:00:04, 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 # 37

Exhibit.

Referring to the exhibit, which statement is true?

- A. An ERB architecture is being used.

- B. A CRB architecture is being used.
- C. A PBB-EVPN 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 # 38

Exhibit.

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?

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

Answer: B

Explanation:

In this scenario, you want the border leaf device to advertise Type 5 EVPN routes to another border leaf in a different data center. Type 5 routes in EVPN are used to advertise IP prefixes, which means that for proper route advertisement, you need to configure the correct settings within the evpn hierarchy.

Step-by-Step Analysis:

* Understanding EVPN Type 5 Routes:

* EVPN Type 5 routes are used to advertise IP prefixes across EVPN instances, which allow different data centers or networks to exchange routing information effectively.

* VRF Target Setting:

* The vrf-target configuration is crucial because it defines the export and import policies for the VRF within the EVPN instance. For EVPN Type 5 routes to be advertised to other border leaf devices, the vrf-target needs to be correctly configured under the evpn hierarchy, not just within the routing instance.

Command to solve this:

```
move vrf-target target:65000:1 to evpn
```

* Other Options:

* Option B: Adding a VLAN configuration would not address the requirement to advertise Type 5 routes.

* Option C: Adding VXLAN encapsulation may be necessary for other scenarios but does not directly address the Type 5 route advertisement.

* Option D: Changing the route-distinguisher will differentiate routes but does not impact the advertisement of Type 5 routes to other data centers.

By moving the vrf-target to the evpn hierarchy, you enable the proper route advertisement, ensuring that the Type 5 routes for local networks are shared with other data center border leaf devices. This is aligned with best practices for multi-data center EVPN implementations, which emphasize the correct placement of routing policies within the EVPN configuration.

NEW QUESTION # 39

Exhibit.

Given the configuration shown in the exhibit, why has the next hop remained the same for the EVPN routes advertised to the peer 203.0.113.2?

- A. EVPN routes cannot have the next hop changed.
- B. The vrf-export parameter must be applied.
- C. The vpn-apply-export parameter must be applied to this peer.
- D. The export policy is incorrectly configured.

Answer: C

Explanation:

* Understanding the Configuration:

* The configuration shown in the exhibit involves an EVPN (Ethernet VPN) setup using BGP as the routing protocol. The export policy named CHANGE_NH is applied to the BGP group evpn- peer, which includes a rule to change the next hop for routes that match the policy.

* Issue with Next Hop Not Changing:

* The policy CHANGE_NH is correctly configured to change the next hop to 203.0.113.10 for the matching routes. However, the next hop remains unchanged when advertising EVPN routes to the peer 203.0.113.2.

* Reason for the Issue:

* In Junos OS, when exporting routes for VPNs (including EVPN), the next-hop change defined in a policy will not take effect unless the vpn-apply-export parameter is used in the BGP configuration. This parameter ensures that the export policy is applied specifically to VPN routes.

* The vpn-apply-export parameter must be included to apply the next-hop change to EVPN routes.

* Correct Answer Explanation:

* D. The vpn-apply-export parameter must be applied to this peer: This is the correct solution because the next hop in EVPN routes won't be altered without this parameter in the BGP configuration. It instructs the BGP process to apply the export policy to the EVPN routes.

Data Center References:

* This behavior is standard in EVPN deployments with Juniper Networks devices, where the export policies applied to VPN routes require explicit invocation using vpn-apply-export to take effect.

NEW QUESTION # 40

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