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Juniper JN0-664 (Service Provider, Professional (JNCIP-SP)) Exam is a professional-level certification exam designed for individuals who want to demonstrate their advanced skills in service provider routing and switching technologies. JN0-664 exam is intended for network professionals who have a solid understanding of Juniper Networks technology and are looking to advance their knowledge and skills to the next level.

The JN0-664 exam is a comprehensive exam that assesses the ability of candidates to design, implement, and troubleshoot complex Service Provider networks. JN0-664 exam consists of 65 multiple-choice questions and candidates are given 120 minutes to complete the exam. Juniper Networks recommends that candidates have at least three to five years of experience working with Service Provider networks before attempting JN0-664 Exam. Passing JN0-664 exam demonstrates a high level of expertise in Service Provider Routing and Switching technologies and is highly valued by employers and networking professionals alike.

Successful completion of the Juniper JN0-664 Certification Exam demonstrates an individual's ability to design, implement, and troubleshoot complex service provider networks. It also demonstrates an individual's ability to configure and manage Juniper Networks' routing and switching platforms to meet the needs of service provider customers.

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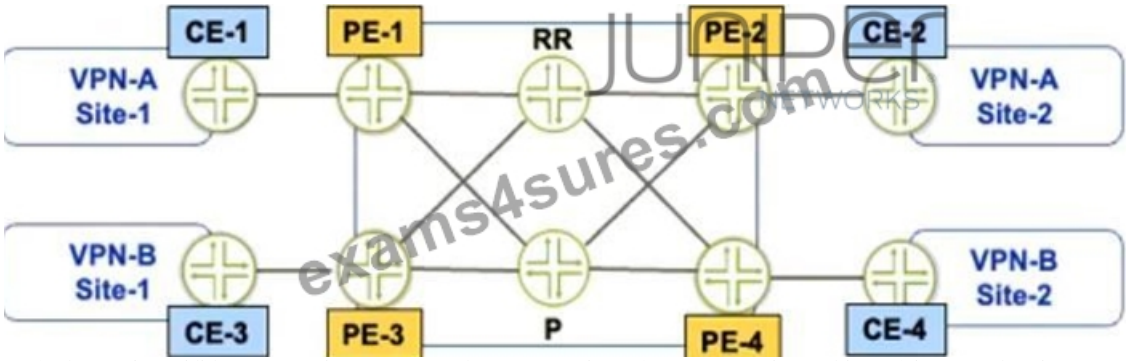
Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q79-Q84):

NEW QUESTION # 79
Exhibit



Referring to the exhibit, PE-1 and PE-2 are getting route updates for VPN-B when neither of them service that VPN Which two actions would optimize this process? (Choose two.)

- A. Configure the resolution rib bgp.l3vpn.0 resolution-ribs inet.0 statement on the PEs.
- B. Configure the family route-target statement on the PEs.
- C. Configure the resolution rib bgp.l3vpn.0 resolution-ribs inet.0 statement on the RR.
- D. Configure the family route-target statement on the RR.

Answer: C,D

Explanation:
BGP route target filtering can be configured on PE devices or on route reflectors (RRs). Configuring BGP route target filtering on RRs is more efficient and scalable, as it reduces the number of BGP sessions and updates between PE devices. To configure BGP route target filtering on RRs, the following steps are required:
Configure the family route-target statement under the BGP group or neighbor configuration on the RRs. This enables the exchange of the route-target address family between the RRs and their clients (PE devices).
Configure the resolution rib bgp.l3vpn.0 resolution-ribs inet.0 statement under the routing-options configuration on the RRs. This enables the RRs to resolve next hops for VPN routes using the inet.0 routing table.

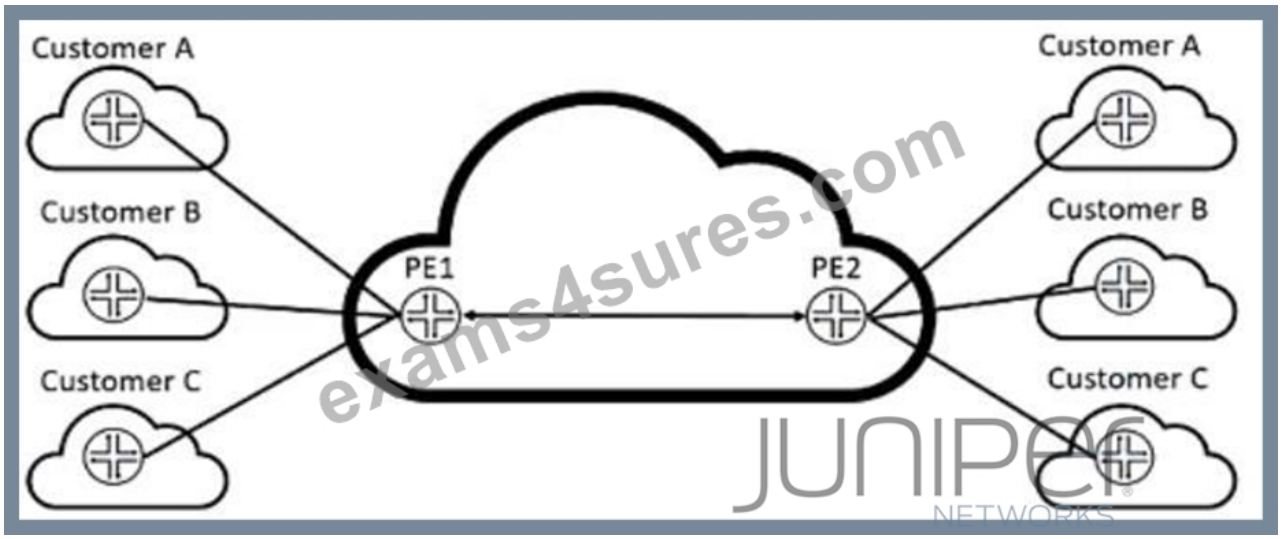
NEW QUESTION # 80
In IS-IS, which two statements are correct about the designated intermediate system (DIS) on a multi-access network segment? (Choose two)

- A. A router with a priority of 1 wins the DIS election over a router with a priority of 10.
- B. A router with a priority of 10 wins the DIS election over a router with a priority of 1.
- C. On the multi-access network, each router only forms an adjacency to the DIS.
- D. On the multi-access network, each router forms an adjacency to every other router on the segment

Answer: B,C

Explanation:
Explanation
In IS-IS, a designated intermediate system (DIS) is a router that is elected on a multi-access network segment (such as Ethernet) to perform some functions on behalf of other routers on the same segment. A DIS is responsible for sending network link-state advertisements (LSPs), which describe all the routers attached to the network. These LSPs are flooded throughout a single area. A DIS also generates pseudonode LSPs, which represent the multi-access network as a single node in the link-state database. A DIS election is based on the priority value configured on each router's interface connected to the multi-access network. The priority value ranges from 0 to 127, with higher values indicating higher priority. The router with the highest priority becomes the DIS for the area (Level 1, Level 2, or both). If routers have the same priority, then the router with the highest MAC address is elected as the DIS. By default, routers have a priority value of 64. On a multi-access network, each router only forms an adjacency to the DIS, not to every other router on the segment. This reduces the amount of hello packets and LSP

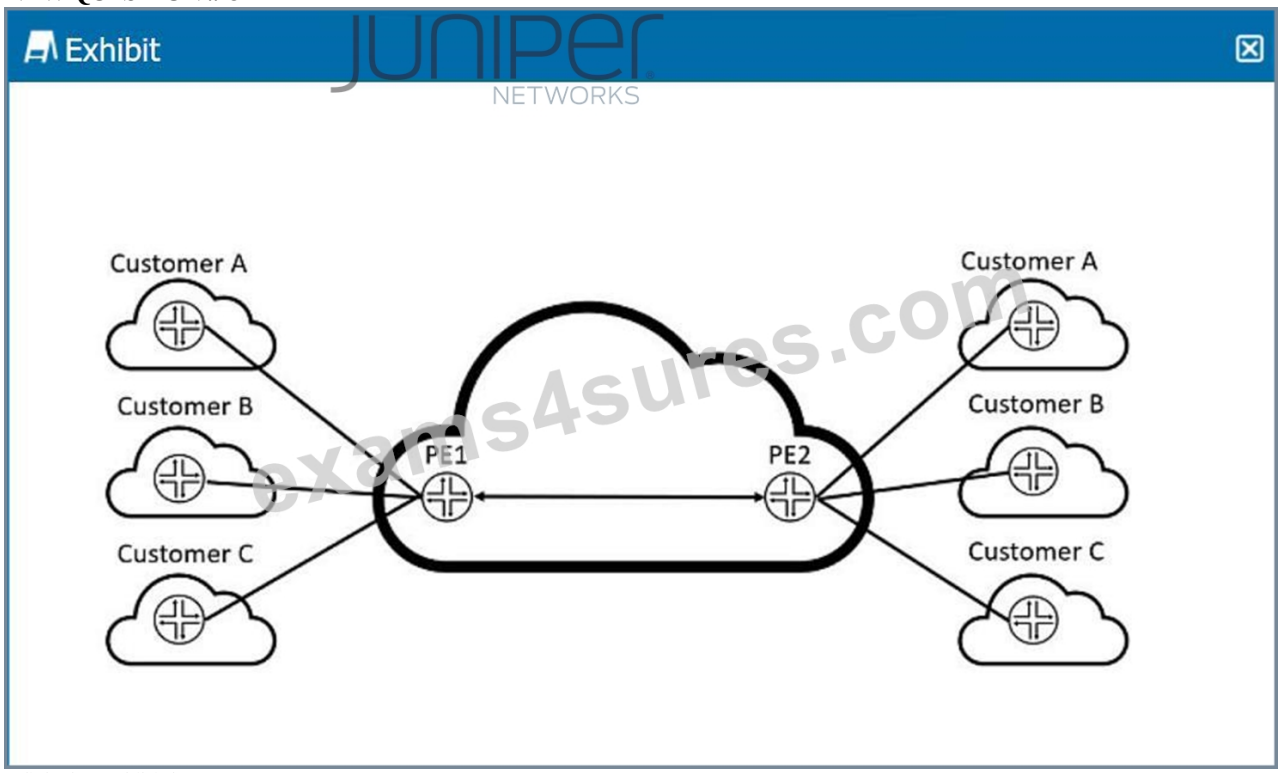
NEW QUESTION # 81
After adding Customer C to your Layer 3 VPN. you must ensure that PE2 is receiving VPN routes for all customers attached to PE1, as shown in the exhibit.
Which operational command displays this information?



- A. show route summary
- B. show route table customer-c.inet.0
- C. show route table bgp.l3vpn.0
- D. show route table inet.0

Answer: C

NEW QUESTION # 82



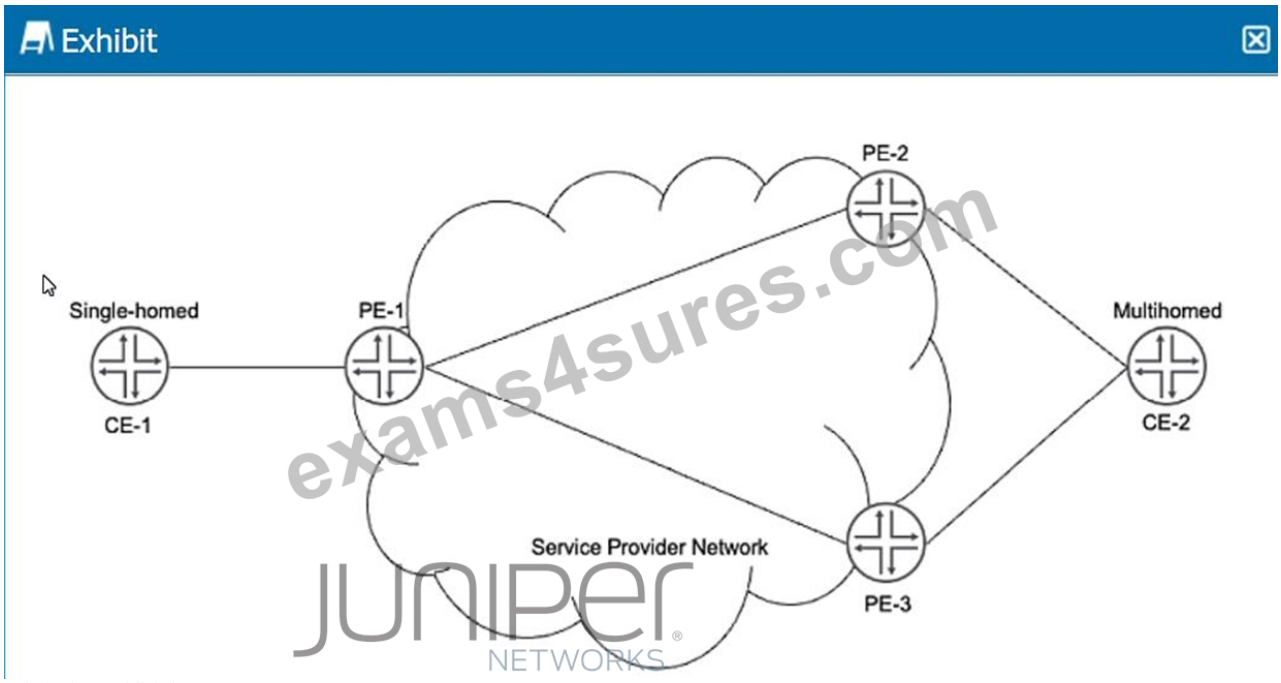
Click the Exhibit button.
After adding Customer C to your Layer 3 VPN, you must ensure that PE2 is receiving VPN routes for all customers attached to PE1, as shown in the exhibit.
Which operational command displays this information?

- A. show route table bgp. 13vpn.0
- B. show route summary
- C. show route table inet.0
- D. show route table customer-c.inet.0

Answer: D

Explanation:
In the context of Layer 3 VPNs (L3VPN) using MPLS, the routing information for different customers (VPNs) is typically stored in separate routing tables (VRFs). When you want to verify that PE2 is receiving the VPN routes for Customer C from PE1, you need to check the appropriate VRF routing table on PE2.
1. **Option A: show route table customer-c.inet.0**
- This command displays the routing table specific to Customer C's VRF.
- Since we want to verify that PE2 has received the VPN routes for Customer C, this is the most appropriate command to use.
- It allows us to see all routes learned for Customer C's VPN.
2. **Option B: show route table bgp.l3vpn.0**
- This command displays the BGP routing table for all L3VPN routes.
- While this includes routes for Customer C, it also includes routes for all other VPNs, making it harder to isolate the specific information for Customer C.
- This command is more useful for an overall view of BGP L3VPN routes rather than for a specific customer's VRF.
3. **Option C: show route summary**
- This command provides a summary of the routes in all routing tables.
- It doesn't give detailed information about the specific routes for Customer C's VRF.
- It's useful for a high-level overview but not for verifying specific customer routes.
4. **Option D: show route table inet.0**
- This command shows the global routing table, not the VRF-specific tables.
- The global routing table doesn't contain the VPN-specific routes that are stored in the VRF tables.
- Therefore, it won't help in verifying the routes for Customer C.
Conclusion:
To verify that PE2 is receiving VPN routes for Customer C from PE1, the most appropriate command is to check the specific VRF routing table for Customer C. Hence, the correct answer is:
A. show route table customer-c.inet.0
References:
- Junos OS documentation on MPLS VPNs: [Junos MPLS VPNs Guide](https://www.juniper.net/documentation/en_US/junos/topics/topic-map/mpls-vpns.html)
- Command Reference for Routing Tables: [Junos OS Routing Tables Command Reference] (https://www.juniper.net/documentation/en_US/junos/topics/reference/command-summary/show-rout

NEW QUESTION # 83
Refer to the exhibit.



Click the Exhibit button.
You have an EVI implemented between PE-1, PE-2, and PE-3 to allow communication between CE-1 and CE-2. CE-2 receives unicast traffic from CE-1 on both links to PE-2 and PE-3. When CE-1 sends broadcast traffic, CE-2 receives it on only one of the multihomed links.
Referring to the exhibit, which EVPN route type enables this behavior?

- A. Type 2
- B. Type 4
- C. Type 3
- D. Type 1

Answer: C

Explanation:
In the context of Ethernet VPN (EVPN) and the behavior described in the exhibit, it's essential to understand the different EVPN route types and their specific functionalities. Here, CE-2 is receiving unicast traffic on both of its multihomed links to PE-2 and PE-3, but broadcast traffic is received only on one of these links.
Explanation of EVPN Route Types:
1. **Type 1 (Ethernet Auto-Discovery Routes)**:
- These routes are used for auto-discovery of Ethernet segments and for advertising VLAN membership.
- They do not directly influence the behavior described in the question.
2. **Type 2 (MAC/IP Advertisement Routes)**:
- These routes are used to advertise MAC addresses and IP-to-MAC bindings within the EVPN.
- They handle unicast traffic forwarding and are crucial for populating the MAC address tables on the PE devices.
- While important, they do not explain the selective broadcast behavior.
3. **Type 3 (Inclusive Multicast Ethernet Tag Routes)**:
- These routes are used to build multicast distribution trees for delivering broadcast, unknown unicast, and multicast (BUM) traffic.
- They ensure that BUM traffic is sent only once per Ethernet segment, preventing duplicate frames from being sent to multihomed CEs.
- This aligns with the behavior described where CE-2 receives broadcast traffic on only one link to prevent duplication.
4. **Type 4 (Ethernet Segment Routes)**:
- These routes are used to advertise the presence of an Ethernet segment and are crucial for Designated Forwarder (DF) election processes in multihoming scenarios.
- While relevant to multihoming, they are not directly responsible for the selective broadcast behavior.
Conclusion:
The behavior described, where CE-2 receives broadcast traffic on only one of its multihomed links, is controlled by Type 3 routes. These routes are specifically designed to handle inclusive multicast and broadcast traffic efficiently in EVPN environments, ensuring that such traffic is not duplicated across multiple links to the same CE.
Reference:
- Juniper Networks EVPN Documentation: [EVPN Overview] (https://www.juniper.net/documentation/en_US/junos/topics/concept/evpn-overview.html)
- RFC 7432, BGP MPLS-Based Ethernet VPN: [RFC 7432](https://tools.ietf.org/html/rfc7432) provides detailed descriptions of EVPN route types and their functions.
- Junos OS EVPN Configuration Guide: [Junos OS EVPN Configuration Guide] (https://www.juniper.net/documentation/en_US/junos/topics/topic-map/evpn.html)

NEW QUESTION # 84
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