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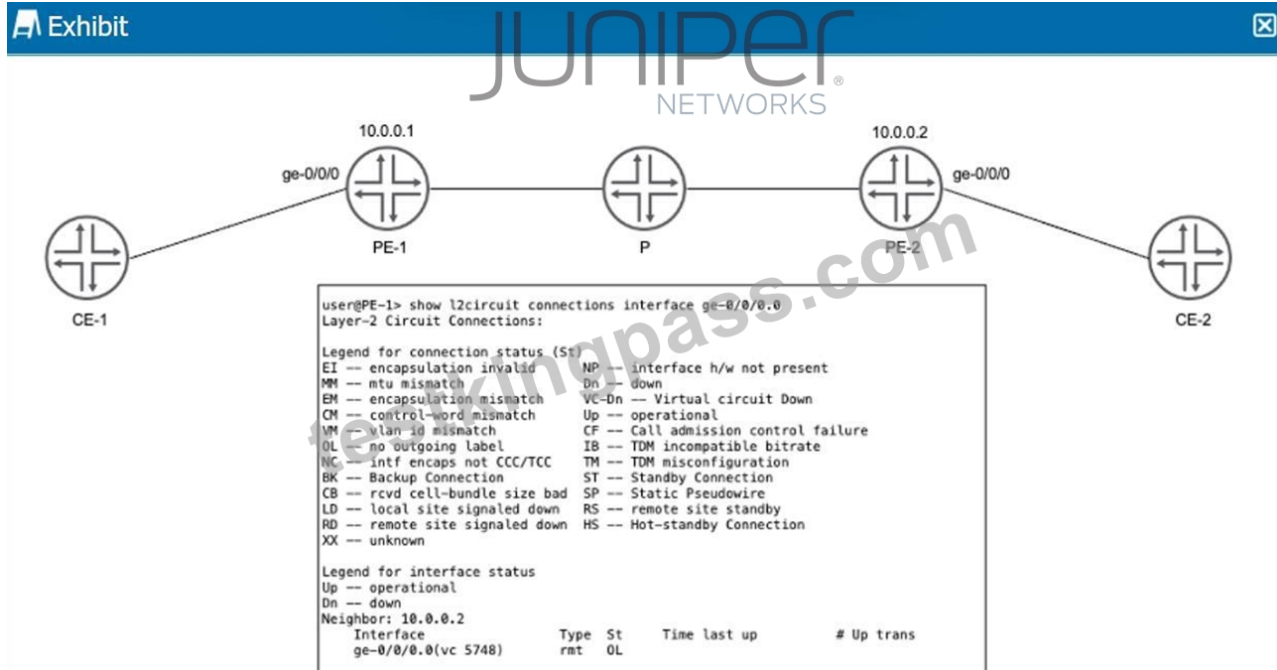
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Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q81-Q86):

NEW QUESTION # 81



Click the Exhibit button.

PE-1 and PE-2 are configured with LDP-signaled pseudowires to provide connectivity between CE-1 and CE-2. You notice no connectivity exists between CE-1 and CE-2.

Referring to the exhibit, which two statements describe potential causes for this fault? (Choose two.)

- A. There is no LSP configured from PE-1 to PE-2.
- B. There is no LSP configured from PE-2 to PE-1.
- C. Interface ge-0/0/0 on PE-1 is down.
- D. The VC IDs are mismatched.

Answer: A,D

Explanation:

In the provided exhibit, PE-1 and PE-2 are configured with LDP-signaled pseudowires to provide Layer 2 connectivity between CE-1 and CE-2. The issue is that there is no connectivity between CE-1 and CE-2. Let's analyze the potential causes for this fault.

1. ****LDP-Signaled Pseudowire (L2 Circuit) Configuration****:

- Pseudowires in MPLS networks use LDP (Label Distribution Protocol) to signal the virtual circuit (VC) labels between PE routers.

- For successful connectivity, the VC ID (Virtual Circuit Identifier) and LSPs (Label Switched Paths) between the PE routers must be correctly configured and operational.

2. ****Analysis of the Exhibit****:

- The output shows the status of the L2 circuit connection on PE-1.

- The status (St) for the interface is 'rmt Dn', which indicates that the remote site (PE-2) is down or unreachable.

3. ****Potential Causes****:

- ****A. The VC IDs are mismatched****:

- Correct. If the VC IDs configured on PE-1 and PE-2 do not match, the L2 circuit cannot be established.

Mismatched VC IDs prevent the pseudowire from forming correctly.

- ****B. There is no LSP configured from PE-1 to PE-2****:

- Correct. LSPs are required for MPLS forwarding. If there is no LSP from PE-1 to PE-2, the LDP session cannot establish a path for the pseudowire. This results in the pseudowire being down.

- ****C. Interface ge-0/0/0 on PE-1 is down****:

- Incorrect. The interface status is shown as 'Up', meaning the physical interface is operational.

- **D. There is no LSP configured from PE-2 to PE-1**:

- While this might seem like a potential issue, the specific problem of the remote site being down ('mt Dn') typically relates more directly to the forward path from PE-1 to PE-2 (i.e., no LSP from PE-1 to PE-2). Hence, the more accurate immediate cause is covered in Option B.

****Conclusion**:**

Given the analysis, the correct statements describing potential causes for the fault are:

****A. The VC IDs are mismatched.****

****B. There is no LSP configured from PE-1 to PE-2.****

****References**:**

- Juniper Networks Documentation on L2 Circuits: [Configuring Layer 2


Circuits](https://www.juniper.net/documentation/en_US/junos/topics/task/configuration/layer-2-circuits-configur

- MPLS Configuration Guide: [Juniper MPLS

Configuration](https://www.juniper.net/documentation/en_US/junos/topics/topic-map/mps-overview.html)

NEW QUESTION # 82

Exhibit



Communities: target:64512:5678 mac-mobility:0x0 (sequence 4)

You have MAC addresses moving in your EVPN environment

Referring to the exhibit, which two statements are correct about the sequence number? (Choose two)

- A. It is advertised using a Type 2 message
- B. It helps the local PE to identify the latest advertisement.
- C. It identifies MAC addresses that should be discarded.
- D. It resolves conflicting MAC address ownership claims.

Answer: A,B

Explanation:

In an EVPN (Ethernet Virtual Private Network) environment, MAC address mobility is a critical feature that allows devices to move across different locations while ensuring the network consistently tracks their MAC addresses. Let's break down the components in the exhibit and analyze the correct statements.

Understanding MAC Mobility and Sequence Numbers in EVPN

In EVPN, MAC mobility is managed through sequence numbers that are included in Type 2 MAC/IP advertisements.

* The sequence number tracks MAC movement events and is used to determine the most recent update when a MAC address appears on different PEs (Provider Edge devices).

* When a MAC address moves between locations, the EVPN PEs increment the sequence number and advertise it to resolve conflicts and determine which PE has the most up-to-date information.

Now, Let's Review the Options:

C. It helps the local PE to identify the latest advertisement.

* Correct: The sequence number plays a key role in resolving MAC address conflicts. If multiple PEs advertise the same MAC address, the PE compares the sequence numbers to determine which update is the latest.

* A higher sequence number indicates a more recent MAC update.

D. It is advertised using a Type 2 message.

* Correct: EVPN MAC/IP advertisements use BGP EVPN Type 2 messages to carry MAC addresses, IP addresses (optional), and their associated sequence numbers.

* Type 2 advertisements are used to track MAC mobility and IP reachability information in the EVPN.

Why the Other Options Are Incorrect:

A. It identifies MAC addresses that should be discarded.

* Incorrect: The sequence number doesn't identify MAC addresses that need to be discarded. Instead, it resolves conflicts by determining the most recent MAC address advertisement based on the highest sequence number.

B. It resolves conflicting MAC address ownership claims.

* Partially true, but misleading: While it's true that sequence numbers are used in conflict resolution, the sequence number itself doesn't directly resolve ownership claims. It only helps determine which advertisement is more recent. The actual conflict resolution happens through the comparison of the advertisements and sequence numbers.

C. It helps the local PE to identify the latest advertisement.

D. It is advertised using a Type 2 message.

Reference from Juniper Documentation:

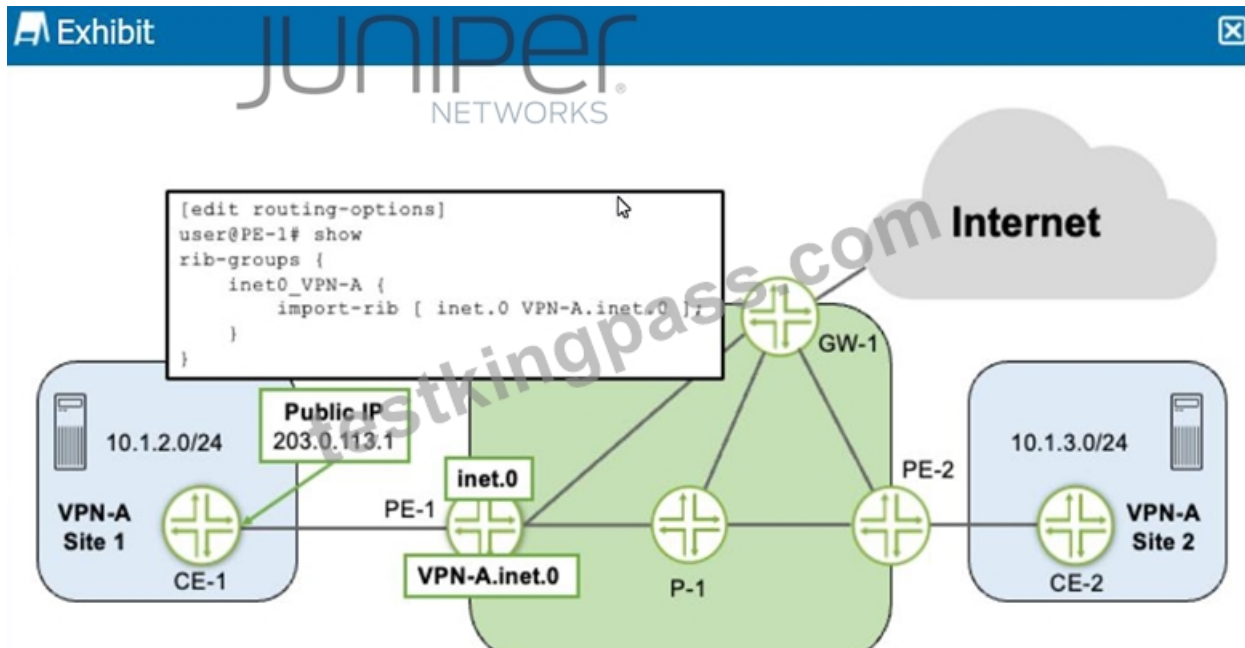
* Juniper EVPN Configuration Guide:

"In EVPN MAC/IP advertisements, sequence numbers track the mobility of MAC addresses and are used to resolve conflicts when

the same MAC address is advertised by multiple PEs. The PE with the higher sequence number has the most recent information."
Juniper BGP EVPN Mobility Documentation

NEW QUESTION # 83

Refer to the exhibit.



Click the Exhibit button.

Referring to the exhibit, you must provide VRF Internet access over a single connection for VPN-A Site 1, which connects to PE-1. Which two statements are correct in this scenario? (Choose two.)

- A. You do not need to use the RIB group default route, which is learned through BGP, from the inet. 0 table to the VPN-A. inet. 0 table.
- B. You must use the RIB group to move interface routes from the inet . 0 table to the VPN-A. inet. 0 table.
- C. You do not need to use the RIB group to move interface routes from the inet. 0 table to the VPN-A. inet. 0 table.
- D. You must use the RIB group to move a default route, which is learned through BGP, from the inet. 0 table to the VPN-A. inet. 0 table.

Answer: C,D

Explanation:

In the provided exhibit, the configuration involves using a RIB (Routing Information Base) group to facilitate internet access for VPN-A Site 1 through PE-1. The goal is to provide VRF Internet access over a single connection.

1. ****Understanding RIB Groups****:

- RIB groups allow for the import and export of routes between different routing tables.
- In this scenario, we have two RIBs: 'inet.0' (the main routing table) and 'VPN-A.inet.0' (the VRF-specific routing table).

2. ****Statement Analysis****:

- ****A. You must use the RIB group to move a default route, which is learned through BGP, from the inet.0 table to the VPN-A.inet.0 table.****

- Correct. To provide Internet access to VPN-A, the default route (0.0.0.0/0) learned via BGP in the 'inet.0' table must be made available in the 'VPN-A.inet.0' table. This is done using the RIB group to import the default route.

- ****B. You do not need to use the RIB group to move interface routes from the inet.0 table to the VPN-A.inet.0 table.****

- Correct. Interface routes (connected routes) are typically directly added to both the global and the VRF routing tables without needing a RIB group. These routes are known to the VRF because the interfaces are part of the VRF configuration.

- ****C. You do not need to use the RIB group default route, which is learned through BGP, from the inet.0 table to the VPN-A.inet.0 table.****

- Incorrect. As discussed, the default route needs to be imported into the VRF's routing table using a RIB group to enable Internet access for the VRF.

- ****D. You must use the RIB group to move interface routes from the inet.0 table to the VPN-A.inet.0 table.****

- Incorrect. Interface routes are directly associated with the VRF interfaces and are automatically known to the VRF routing table. There is no need to use a RIB group for these routes.

****Conclusion****:

The correct answers are:

****A. You must use the RIB group to move a default route, which is learned through BGP, from the inet.0 table to the VPN-A.inet.0 table.****

****B. You do not need to use the RIB group to move interface routes from the inet.0 table to the VPN-A.inet.0 table.****

****Reference**:**

- Juniper Networks Documentation on RIB Groups: [RIB Groups Overview]

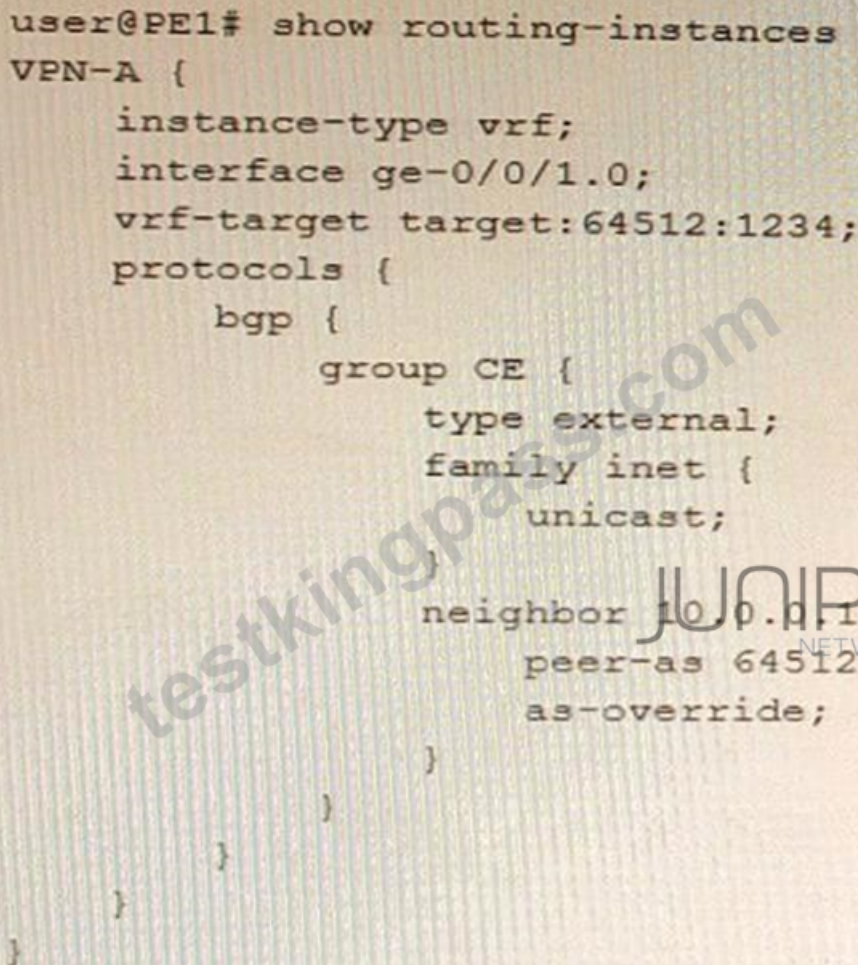
(https://www.juniper.net/documentation/en_US/junos/topics/concept/rib-groups-overview.html)

- Junos OS VPNs Configuration Guide: [Junos VPNs Configuration]

(https://www.juniper.net/documentation/en_US/junos/topics/concept/vpns-overview.html)

NEW QUESTION # 84

Exhibit



```
user@PE1# show routing-instances
VPN-A {
  instance-type vrf;
  interface ge-0/0/1.0;
  vrf-target target:64512:1234;
  protocols {
    bgp {
      group CE {
        type external;
        family inet {
          unicast;
        }
        neighbor 10.0.0.1 {
          peer-as 64512;
          as-override;
        }
      }
    }
  }
}
```

Which two statements about the configuration shown in the exhibit are correct? (Choose two.)

- A. A Layer 2 VPN is configured.
- **B. This VPN connects customer sites that use different AS numbers.**
- **C. A Layer 3 VPN is configured.**
- D. This VPN connects customer sites that use the same AS number

Answer: B,C

Explanation:

The configuration shown in the exhibit is for a Layer 3 VPN that connects customer sites that use different AS numbers. A Layer 3 VPN is a type of VPN that uses MPLS labels to forward packets across a provider network and BGP to exchange routing information between PE routers and CE routers. A Layer 3 VPN allows customers to use different routing protocols and AS numbers at their sites, as long as they can peer with BGP at the PE-CE interface. In this example, CE-1 is using AS 65530 and CE-

2 is using AS 65531, but they can still communicate through the VPN because they have BGP sessions with PE-1 and PE-2, respectively.

NEW QUESTION # 85

You have an L2VPN connecting two CEs across a provider network. The CEs and provider network are configured with the default MTU setting. You use the ping command from one CE to the other CE with a size of 1500 bytes. In this scenario, which statement is correct when using the ping command?

- A. You expect an echo reply.
- B. You expect an ICMP message too long error.
- C. You expect a silent discard.
- D. You expect the ping results to be fragmented.

Answer: A

NEW QUESTION # 86

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