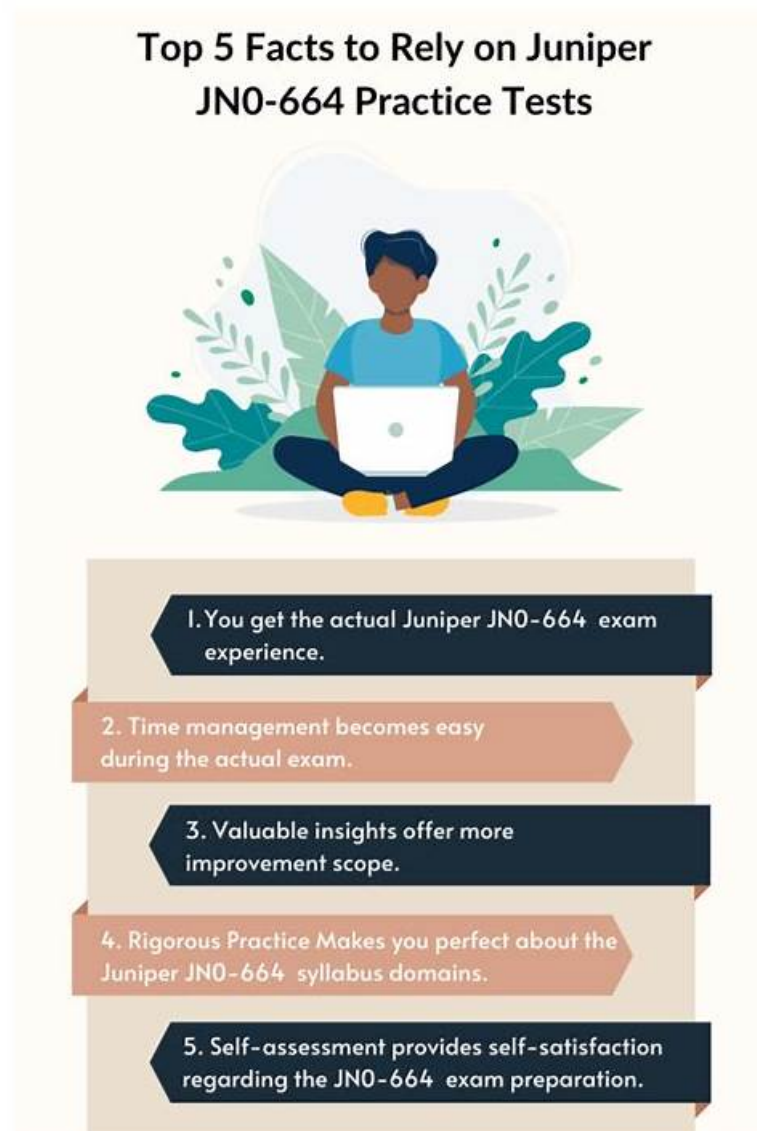


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Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q13-Q18):

NEW QUESTION # 13

Which two statements are correct about the customer interface in an LDP-signaled pseudowire? (Choose two)

- A. When the encapsulation is vlan-ccc or extended-vlan-ccc, the configured VLAN tag is not included in the control plane LDP advertisement
- B. When the encapsulation is vLan-ccc or extended-vlan-ccc, the configured VLAN tag is included in the control plane LDP advertisement
- C. When the encapsulation is ethernet-ccc, only frames without a VLAN tag are accepted in the data plane
- D. When the encapsulation is ethemet-ccc, tagged and untagged frames are both accepted in the data plane.

Answer: B,D

Explanation:

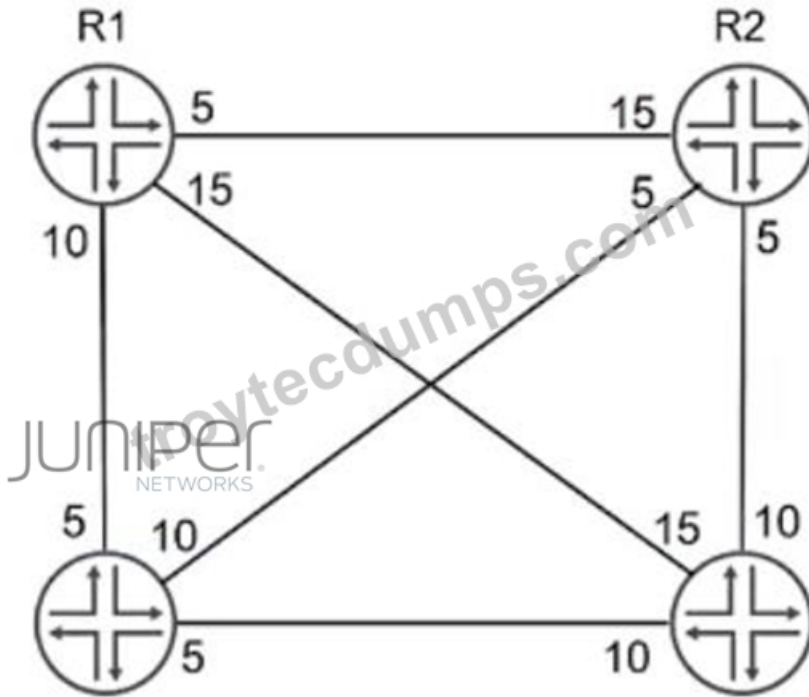
Explanation

The customer interface in an LDP-signaled pseudowire is the interface on the PE router that connects to the CE device. An LDP-signaled pseudowire is a type of Layer 2 circuit that uses LDP to establish a point-to-point connection between two PE routers over an MPLS network. The customer interface can have different encapsulation types depending on the type of traffic that is carried over the pseudowire. The encapsulation types are ethernet-ccc, vlan-ccc, extended-vlan-ccc, atm-ccc, frame-relay-ccc, ppp-ccc, cisco-hdlc-ccc, and tcc-ccc. Depending on the encapsulation type, the customer interface can accept or reject tagged or untagged frames in the data plane, and include or exclude VLAN tags in the control plane LDP advertisement. The following table summarizes the behavior of different encapsulation types:

NEW QUESTION # 14

Exhibit.

OSPF Area 0



Referring to the exhibit, which path would traffic passing through R1 take to get to R4?

- A. R1 -> R2 -> R3 -> R4
- B. R1 -> R2 -> R4
- C. R1 -> R4
- D. R1 -> R3 -> R4

Answer: B

Explanation:

The OSPF cost is carried in the LSAs that are exchanged within an OSPF area. When a router calculates the cost to a destination it uses the cost of the exit interface of each router in the path to the destination.

NEW QUESTION # 15

Exhibit

```

[edit routing-instances CE-1]
user@router# show
routing-options {
    static {
        route 10.101.1.0/24 next-hop 10.1.1.100;
    }
}
instance-type vrf;
interface ge-0/0/2.0;
route-distinguisher 65512:1;
vrf-target target:65512:100;
  
```

Referring to the exhibit, which statement is true?

- A. The 10.101.1.0/24 route will be shared if the vrf-table-label parameter is configured.

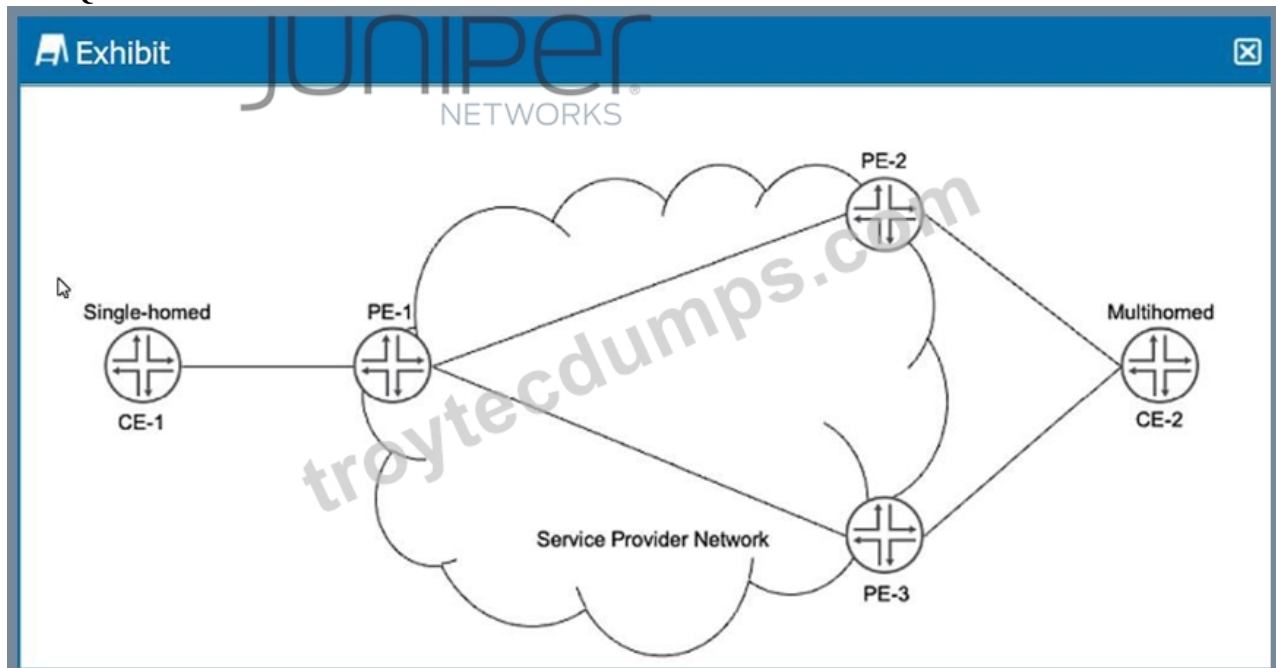
- B. The 10.101.1 0/24 route will be shared if there are other VRFs that use the same route target community
- C. The 10.101.1.0/24 route will be shared if the auto-export parameter is configured
- D. The 10.101.1.0/24 route will only be shared if BGP is configured in the routing instance

Answer: C

Explanation:

The auto-export parameter is a routing option that allows a routing instance to share routes with other routing instances or the master routing table. The auto-export parameter automatically exports routes from one routing instance to another based on the route target communities attached to the routes. In this scenario, the 10.101.1.0/24 route will be shared if the auto-export parameter is configured under [edit routing-options] hierarchy level.

NEW QUESTION # 16



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

Answer: A

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.

References:

- 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 # 17

Exhibit

```

[edit routing-instances CE-1]
user@R1# show
protocols {
    bgp {
        group CE-1 {
            type external;
            peer-as 65555;
            neighbor 10.1.1.100;
        }
    }
    instance-type vrf;
    interface ge-0/0/2.0;
    route-distinguisher 65512:1;
    vrf-target target:65512:100;
[edit routing-instances CE-2]
user@R2# show
protocols {
    bgp {
        group CE-2 {
            type external;
            peer-as 64444;
            neighbor 10.1.5.100;
        }
    }
    instance-type vrf;
    interface ge-0/0/3.0;
    route-distinguisher 65512:1;
    vrf-target target:65512:100;

```

Referring to the exhibit, which statement is correct?

- A. The route-distinguisher configuration will stop routes from being shared between CE-1 and CE-2.
- B. The vrf-target configuration will allow routes to be shared between CE-1 and CE-2.
- C. The vrf-target configuration will stop routes from being shared between CE-1 and CE-2.
- D. The route-distinguisher configuration will allow overlapping routes to be shared between CE-1 and CE-2.

Answer: D

Explanation:

The route distinguisher (RD) is a BGP attribute that is used to create unique VPN IPv4 prefixes for each VPN in an MPLS network. The RD is a 64-bit value that consists of two parts: an administrator field and an assigned number field. The administrator field can be an AS number or an IP address, and the assigned number field can be any arbitrary value chosen by the administrator. The RD is prepended to the IPv4 prefix to create a VPN IPv4 prefix that can be advertised across the MPLS network without causing any overlap or conflict with other VPNs. In this question, we have two PE routers (PE-1 and PE-2) that are connected to two CE devices (CE-1 and CE-2) respectively. PE-1 and PE-2 are configured with VRFs named Customer-A and Customer-B respectively.

NEW QUESTION # 18

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