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## Juniper Service Provider, Professional (JNCIP-SP) Sample Questions (Q38-Q43):

### NEW QUESTION # 38

Which two statements are correct about reflecting inet-vpn unicast prefixes in BGP route reflection? (Choose two.)

- A. A BGP peer does not require any configuration changes to become a route reflector client.
- B. Route reflectors add their cluster ID to the AS path when readvertising client routes.
- C. Route reflectors do not change any existing BGP attributes by default when advertising routes.
- D. Clients add their originator ID when advertising routes to their route reflector

Answer: A,C

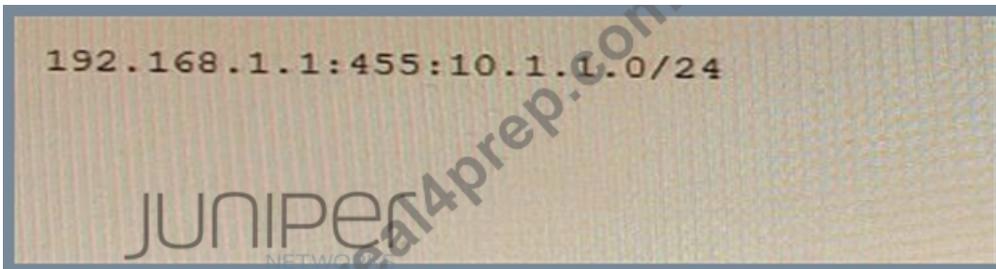
Explanation:

Explanation

Route reflection is a BGP feature that allows a router to reflect routes learned from one IBGP peer to another IBGP peer, without requiring a full-mesh IBGP topology. Route reflectors do not change any existing BGP attributes by default when advertising routes, unless explicitly configured to do so. A BGP peer does not require any configuration changes to become a route reflector client, only the route reflector needs to be configured with the client parameter under [edit protocols bgp group group-name neighbor neighbor-address] hierarchy level.

### NEW QUESTION # 39

Exhibit



You are examining an L3VPN route that includes the information shown in the exhibit Which statement is correct in this scenario?

- A. The information shows a Type 0 route distinguisher
- B. The information shows a Type 1 route distinguisher.
- C. The information shows a Type 2 route distinguisher.
- D. The information shows a route target

Answer: A

Explanation:

Explanation

The information shows a Type 0 route distinguisher, which is one of the three types of route distinguishers defined by RFC 4364. A route distinguisher is a 64-bit value that is prepended to an IPv4 address to create a VPN-IPv4 address, which is unique within a VPN routing and forwarding (VRF) table. A Type 0 route distinguisher has two fields: an administrator subfield (2 bytes) and an assigned number subfield (6 bytes). The administrator subfield can be an AS number or an IP address, and the assigned number subfield can be any value assigned by the administrator. In this example, the administrator subfield is 65530 (an AS number) and the assigned number subfield is 1.

#### NEW QUESTION # 40

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;
        }
      }
    }
  }
}
```

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

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

Answer: A,C

Explanation:

The provided configuration is for a routing instance named VPN-A on a Juniper PE (Provider Edge) router. Let's break it down:

Instance Type: VRF

The instance-type vrf; statement indicates that this is a Layer 3 VPN (L3VPN) using MPLS VPNs (RFC 4364 - BGP/MPLS IP VPNs).

This confirms that Option D (A Layer 3 VPN is configured) is correct .

VRF Target and Interface Association

The vrf-target target:64512:1234; defines the route target (RT) for importing and exporting VPN routes.

The interface ge-0/0/1.0; binds this interface to the VRF.

BGP Configuration for CE (Customer Edge) Peering

The group CE section configures external BGP (EBGP) (type external;).

The neighbor 10.0.0.1 is in AS 64512 (peer-as 64512;).

The as-override; statement is used.

Evaluating the Answer Choices

Option B: "This VPN connects customer sites that use the same AS number." The as-override; command allows multiple customer sites that use the same AS number (64512) to communicate over the service provider's MPLS network. Normally, BGP prevents routes with the same AS in the AS\_PATH from being accepted. The as-override feature replaces the customer's AS number with the provider's AS, ensuring proper route advertisement.

This statement is correct.

Option A: "This VPN connects customer sites that use different AS numbers." If the customer sites had different AS numbers, there would be no need for as-override.

The as-override feature is specifically used when all customer sites share the same AS number, ensuring that BGP routes are accepted.

This statement is incorrect.

Option C: "A Layer 2 VPN is configured."

A Layer 2 VPN (L2VPN) configuration would typically use instance-type l2vpn; or EVPN/VPLS-related parameters (e.g., protocols l2vpn or protocols vpls).

Since this configuration uses instance-type vrf; and BGP with a VRF target, it is clearly a Layer 3 VPN (L3VPN).

This statement is incorrect.

Option D: "A Layer 3 VPN is configured."

The instance-type vrf; confirms this is an MPLS Layer 3 VPN (L3VPN).

VRFs, BGP, and route targets (vrf-target) are specific to Layer 3 VPNs.

This statement is correct.

Final answer:

B. This VPN connects customer sites that use the same AS number.

D. A Layer 3 VPN is configured.

Verification from Juniper Documentation:

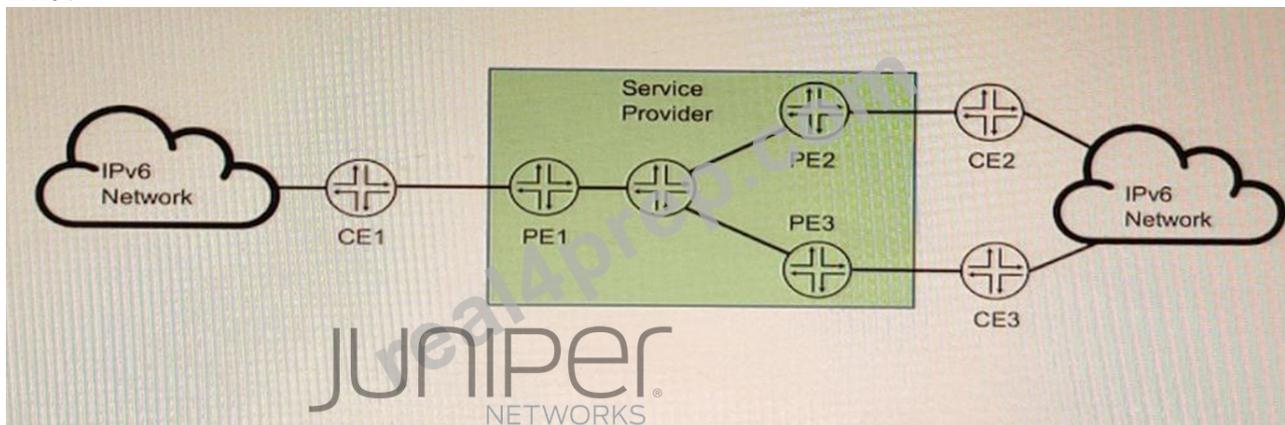
Juniper BGP/MPLS Layer 3 VPNs Guide confirms that instance-type vrf is used for L3VPNs.

Juniper BGP Configuration Guide states that as-override is applied when customer sites use the same AS number.

RFC 4364 (BGP/MPLS IP VPNs) explains how route targets and VRFs are used in L3VPN deployments.

## NEW QUESTION # 41

Exhibit



You are running a service provider network and must transport a customer's IPv6 traffic across your IPv4-based MPLS network using BGP. You have already configured `mpis ipv6-tunneling` on your PE routers.

Which two statements are correct about the BGP configuration in this scenario? (Choose two.)

- A. You must configure family inet6 unicast between PE routers
- B. You must configure family inet6 unicast between PE and CE routers.
- C. You must configure family inet6 labeled-unicast between PE routers.
- D. You must configure family inet6 add-path between PE and CE routers.

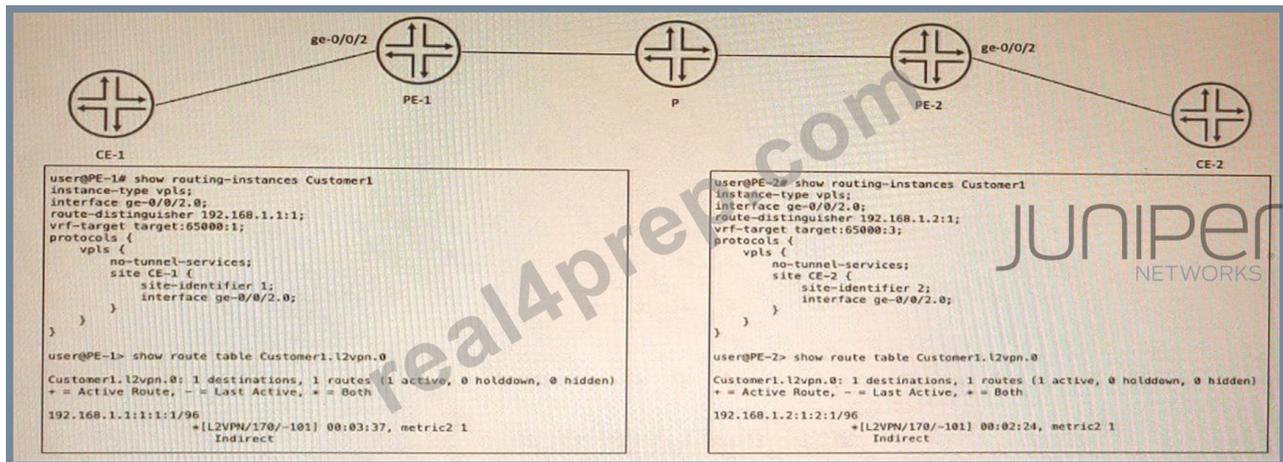
**Answer: B,C**

Explanation:

To transport IPv6 traffic over an IPv4-based MPLS network using BGP, you need to configure two address families: family inet6 labeled-unicast and family inet6 unicast. The former is used to exchange IPv6 routes with MPLS labels between PE routers, and the latter is used to exchange IPv6 routes without labels between PE and CE routers. The `mpis ipv6-tunneling` command enables the PE routers to encapsulate the IPv6 packets with an MPLS label stack and an IPv4 header before sending them over the MPLS network.

## NEW QUESTION # 42

Exhibit



CE-1 and CE-2 are part of a VPLS called Customer1. No connectivity exists between CE-1 and CE-2. In the process of troubleshooting, you notice PE-1 is not learning any routes for this VPLS from PE-2, and PE-2 is not learning any routes for this VPLS from PE-1.

- A. The route distinguisher must match on PE-1 and PE-2.
- B. The no-tunnel-services statement should be deleted on both PEs.
- **C. The route target must match on PE-1 and PE-2.**
- D. The instance type should be changed to I2vpn.

**Answer: C**

Explanation:

VPLS is a technology that provides Layer 2 VPN services over an MPLS network. VPLS uses BGP as its control protocol to exchange VPN membership information between PE routers. The route target is a BGP extended community attribute that identifies which VPN a route belongs to. The route target must match on PE routers that participate in the same VPLS instance, otherwise they will not accept or advertise routes for that VPLS.

## NEW QUESTION # 43

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