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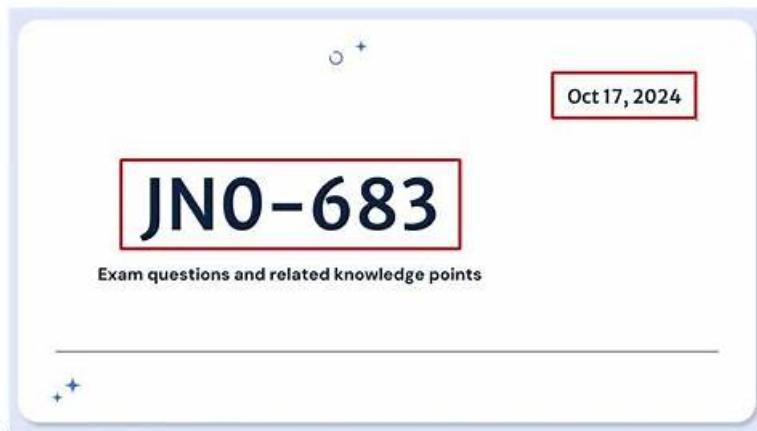
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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q43-Q48):

NEW QUESTION # 43
You are implementing VXLAN broadcast domains in your data center environment. Which two statements are correct in this scenario? (Choose two.)

- A. A VXLAN packet does not contain a VLAN ID.
- B. Layer 2 frames are encapsulated by the source VTEP.
- C. The VNI is a 16-bit value and can range from 0 through 16.777.215.
- D. The VNI must match the VLAN tag to ensure that the remote VTEP can decapsulate VXLAN packets.

Answer: A,B

Explanation:
* VXLAN Overview:
* VXLAN (Virtual Extensible LAN) is a network virtualization technology that encapsulates Layer
2 Ethernet frames into Layer 3 UDP packets for transmission over an IP network. It allows the creation of Layer 2 overlay

networks across a Layer 3 infrastructure.
* Understanding VXLAN Components:
* VTEP (VXLAN Tunnel Endpoint):A VTEP is responsible for encapsulating and decapsulating Ethernet frames into and from VXLAN packets.
* VNI (VXLAN Network Identifier):A 24-bit identifier used to distinguish different VXLAN segments, allowing for up to 16 million unique segments.
* Correct Statements:
* C. Layer 2 frames are encapsulated by the source VTEP:This is correct. In a VXLAN deployment, the source VTEP encapsulates the original Layer 2 Ethernet frame into a VXLAN packet before transmitting it over the IP network to the destination VTEP, which then decapsulates it.
* A. A VXLAN packet does not contain a VLAN ID:This is correct. The VXLAN header does not carry the original VLAN ID; instead, it uses the VNI to identify the network segment. The VLAN ID is local to the switch and does not traverse the VXLAN tunnel.
* Incorrect Statements:
* B. The VNI must match the VLAN tag to ensure that the remote VTEP can decapsulate VXLAN packets:This is incorrect. The VNI is independent of the VLAN tag, and the VLAN ID does not need to match the VNI. The VNI is what the remote VTEP uses to identify the correct VXLAN segment.
* D. The VNI is a 16-bit value and can range from 0 through 16,777,215:This is incorrect because the VNI is a 24-bit value, allowing for a range of 0 to 16,777,215.
Data Center References:
* VXLAN technology is critical for modern data centers as it enables scalability and efficient segmentation without the constraints of traditional VLAN limits.

NEW QUESTION # 44
Exhibit.
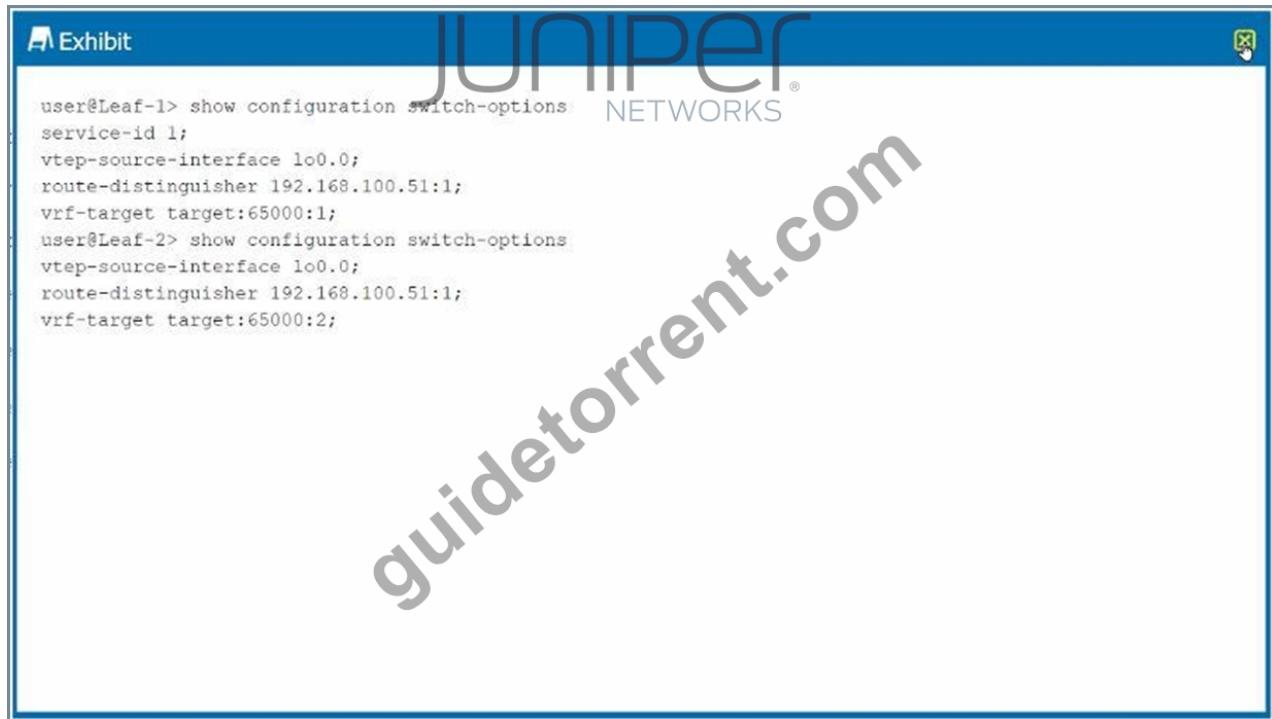

```
user@Leaf-1> show configuration switch-options
service-id 1;
vtep-source-interface lo0.0;
route-distinguisher 192.168.100.51:1;
vrf-target target:65000:1;
user@Leaf-2> show configuration switch-options
vtep-source-interface lo0.0;
route-distinguisher 192.168.100.51:1;
vrf-target target:65000:2;
```

Connections between hosts connected to Leaf-1 and Leaf-2 are not working correctly.

- A. Configure the set switch-options route-distinguisher i92.168.100.50:1parameter on Leaf-1.
- B. Configure the set switch-options vtep-source-interface irb.0 parameter on Leaf-1.
- C. Configure the set switch-options vrf-target target:65000:1parameteron Leaf-2.
- D. Configure the set switch-options service-id 1 parameter on Leaf-2.
- E. Referring to the exhibit, which two configuration changes are required to solve the problem? (Choose two.)

Answer: A,C

NEW QUESTION # 45

Exhibit.

```
routing-instances {
    tenant1 {
        instance-type vrf;
        routing-options {
            auto-export {
                family inet {
                    unicast;
                }
            }
        }
        protocols {
            evpn {
                ip-prefix-routes {
                    advertise direct-nexthop;
                    vni 10010;
                }
            }
        }
        interface lo0.10;
        route-distinguisher 192.168.100.14:5001;
        vrf-target target:65000:1;
    }
}
```

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. Move vrf-target target: 65000:1 to the evpn hierarchy.
- B. Add encapsulation vxlan to the evpn hierarchy.
- C. Add a VLAN configuration with an l3-interface to the tenant1 routing instance.
- D. Change: 5001 in the route-distinguisher to : 10010.

Answer: A

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 # 46
You are asked for TX and RX traffic statistics for each interface to which an application server is attached.
The statistics need to be reported every five seconds. Using the Junos default settings, which telemetry method would accomplish this request?

- A. OpenConfig
- B. gNMI

- C. SNMP
- D. Native Sensors

Answer: D

Explanation:
* Telemetry Methods in Junos:
* Telemetry is used to collect and report data from network devices. For high-frequency statistics reporting, such as every five seconds, you need a telemetry method that supports this level of granularity and real-time monitoring.
* Junos Native Sensors:
* Option C:Native Sensors in Junos provide detailed, high-frequency telemetry data, including TX and RX traffic statistics for interfaces. They are designed to offer real-time monitoring with customizable sampling intervals, making them ideal for the five-second reporting requirement.
Conclusion:
* Option C:Correct-Native Sensors in Junos are capable of providing the required high-frequency telemetry data every five seconds.

NEW QUESTION # 47
Exhibit.


```
[edit]
user@qfx# show protocols bgp group evpn-peer
type internal;
local-address 203.0.113.1;
family inet-vpn {
    unicast;
}
export [ CHANGE_NH ];
neighbor 203.0.113.2
[edit]
user@qfx# show policy-options policy-statement CHANGE_NH
term 1 {
    from protocol bgp;
    then {
        next-hop 203.0.113.10;
        accept;
    }
}
```

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

Answer: D

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 # 48

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