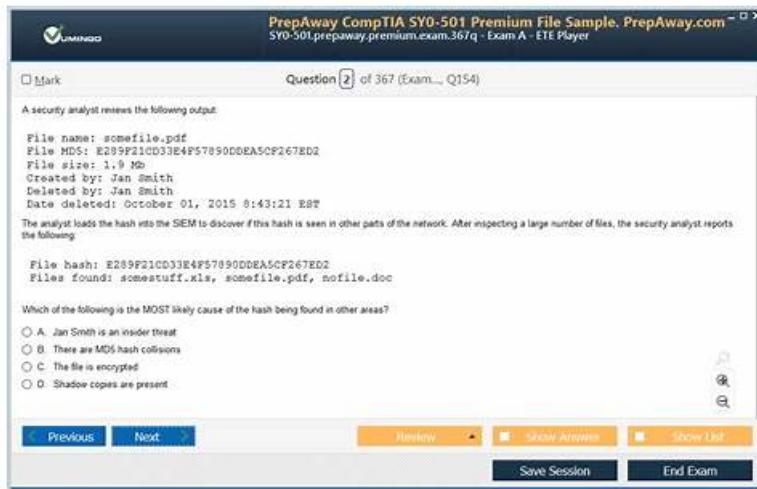


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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q22-Q27):

NEW QUESTION # 22

Exhibit.

```

user@leaf1> show configuration
...
interfaces {
    ge-0/0/0 {
        description "facing_spine1:ge-0/0/1";
        speed 10g;
        mtu 9192;
        unit 0 {
            family inet {
                mtu 9170;
                address 172.16.0.9/31;
            }
        }
    }
    ge-0/0/1 {
        description "facing_spine2:ge-0/0/1";
        speed 10g;
        mtu 9192;
        unit 0 {
            family inet {
                mtu 9170;
                address 172.16.0.11/31;
            }
        }
    }
    irb {
        unit 200 {
            family inet {
                address 192.168.200.1/24;
            }
        }
    }
}
vlans {
    vn100 {
        vlan-id 100;
        description "BLUE";
    }
    vn200 {
        description RED;
        vlan-id 200;
        13-interface irb.200;
    }
}

```

Host A is connected to vlan 100 on lead. Host B is connected to vlan 200 on leaf1. Host A and Host B are unable to communicate. You have reviewed theouting and your hosts have the correct default route (.1) Referring to the exhibit, which two commands will solve the problem? (Choose two.)

- A. **set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10**
- B. **delete vlans vn200 13-interface irb.200**
- C. **set vlans vn100 13-interface irb.100**
- D. **set interfaces irb unit 100 family inet address 192.168.100.1**

Answer: A,C

Explanation:

In the provided network configuration, Host A is in VLAN 100 and Host B is in VLAN 200. The issue arises because these two hosts are unable to communicate, which indicates that either the interfaces are not properly linked to their respective VLANs, or there is a missing static route required for inter-VLAN routing.

Step-by-Step Analysis:

* **VLAN Assignment:**

* The exhibit shows that irb.200 is correctly associated with VLAN 200 in the configuration.

However, there is no corresponding irb.100 for VLAN 100. Without irb.100, the network lacks the logical interface to handle routing for VLAN 100. Thus, adding irb.100 to VLAN 100 is necessary.

Command to solve this:

set vlans vn100 13-interface irb.100

* **Static Route Configuration:**

* For inter-VLAN routing to occur, a static route needs to be configured that allows traffic to pass between different subnets (in this case, between VLAN 100 and VLAN 200). The command set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10 would add a static route that directs all traffic from VLAN 100 to the correct gateway (192.168.200.10), which is necessary to route traffic between the two VLANs.

Command to solve this:

```
set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10
```

Explanation of Incorrect Options:

* Option A (delete vlans vn200 13-interface irb.200): This would remove the logical interface associated with VLAN 200, which is not desired because we need VLAN 200 to remain active and properly routed.

* Option B (set interfaces irb unit 100 family inet address 192-168.100.1): This command would incorrectly assign an IP address that does not correspond with the subnet of VLAN 100 (192.168.200.1/24). This could create a misconfiguration, leading to routing issues.

Data Center References:

For a Data Center, proper VLAN management and static routing are crucial for ensuring that different network segments can communicate effectively, especially when dealing with separated subnets or zones like in different VLANs. This aligns with best practices in DCIM (Data Center Infrastructure Management) which stress the importance of proper network configuration to avoid downtime and ensure seamless communication between all critical IT infrastructure components.

Ensuring that the correct interfaces are associated with the correct VLANs and having the proper static routes in place are both essential steps in maintaining a robust and reliable data center network.

This detailed analysis reflects best practices as noted in standard data center design and network configuration guides.

NEW QUESTION # 23

You are deploying an IP fabric using EBGP and notice that your leaf devices are advertising and receiving all the routes. However, the routes are not installed in the routing table and are marked as hidden.

Which two statements describe how to solve the issue? (Choose two.)

- A. You need to configure as-override.
- B. You need to configure a next-hop self policy.
- C. You need to configure loops 2.
- D. You need to configure multipath multiple-as.

Answer: C,D

NEW QUESTION # 24

You are implementing seamless stitching between two data centers and have a proposed configuration for a border leaf device. In this scenario, which two statements are correct? (Choose two.)

- A. The translation-vni must match in both data centers.
- B. The translation-vni must be different in each data center.
- C. The ESI must match in both data centers.
- D. The ESI must be different in each data center.

Answer: B,C

Explanation:

* Understanding Seamless Stitching:

* Seamless stitching is used in EVPN to interconnect two data centers, allowing for consistent Layer 2 and Layer 3 connectivity across them. This is often achieved by translating VNIs (Virtual Network Identifiers) between the data centers.

* Translation-VNI:

* Option B: The translation VNI must be different in each data center to ensure that traffic can be correctly routed and distinguished as it crosses between the data centers. This differentiation helps to maintain the integrity of the traffic flows and prevents any potential overlap or conflict in VNIs.

* Ethernet Segment Identifier (ESI):

* Option D: The ESI must match in both data centers to ensure that the same Ethernet segment (which could be multihomed) is recognized consistently across the data centers. Matching ESIs are crucial for maintaining a unified view of the Ethernet segment across the interconnected fabric.

Conclusion:

* Option B: Correct- Translation VNIs must be unique to each data center for proper traffic distinction.

* Option D: Correct- Matching ESIs are necessary to maintain consistent Ethernet segment identification across both data centers.

NEW QUESTION # 25

Your organization is implementing EVPN-VXLAN and requires multiple overlapping VLAN-IDs. You decide to use a routing-instance type mac-vrf to satisfy this request.

Which two statements are correct in this scenario? (Choose two.)

- A. Host-facing interfaces must be configured using a service-provider style configuration.
- B. Spine-facing interfaces must be configured using an enterprise-style configuration.
- C. The routing-instance service type can be VLAN-based.
- D. Host-facing interfaces must be configured using enterprise-style configuration.

Answer: A,C

Explanation:

* Understanding the Scenario:

* EVPN-VXLAN deployments often involve scenarios where multiple tenants or applications require overlapping VLAN IDs, which can be managed using the mac-vrf routing instance type.

This allows you to segregate traffic within the same VLAN ID across different tenants.

* Host-facing Interface Configuration:

* A. Host-facing interfaces must be configured using a service-provider style configuration:

This is correct. In mac-vrf configurations, host-facing interfaces (those connecting end devices) typically follow a service-provider style configuration, where each customer or tenant's traffic is isolated even if overlapping VLAN IDs are used.

* B. Host-facing interfaces must be configured using enterprise-style configuration:This is incorrect for mac-vrf instances because enterprise-style configurations are more common in simpler, less segmented networks.

* Routing Instance Service Type:

* D. The routing-instance service type can be VLAN-based:This is correct. The service type in mac-vrf can indeed be VLAN-based, which is particularly useful in scenarios where VLAN ID overlap is needed between different tenants or services.

Data Center References:

* The mac-vrf instance type is powerful for handling complex multi-tenant environments in EVPN- VXLAN, especially when dealing with overlapping VLAN IDs across different segments of the network.

NEW QUESTION # 26

Exhibit.



```
user@Leaf-1> show configuration switch-options
service-id 1;
route-distinguisher 192.168.100.51:1;
vrf-target target:65000:55;
user@Leaf-2> show configuration switch-options
vtep-source-interface lo0.0;
route-distinguisher 192.168.100.51:2;
vrf-target target:65000:54;
```

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

Referring to the exhibit, which two configuration changes are required to solve the problem? (Choose two.)

- A. Configure the set switch-options vrf-target target: 65000:55 parameter on Leaf-2.
- B. Configure the setswitch-options vtep-source-interface100. 0 parameter on Leaf-1.
- C. Configure the setswitch-options route-distinguisher 192.168.100.51:2 parameter on Leaf-1.

- D. Configure the set switch-options service-id 1 parameter on Leaf-2.

Answer: A,D

Explanation:

* Review of the Exhibit:

* The exhibit shows the switch configuration for Leaf-1 and Leaf-2. The configurations include route distinguishers, VRF targets, and service IDs, all of which are crucial for ensuring proper operation in an EVPN-VXLAN environment.

* Service-ID Consistency:

* The service ID must be consistent across all participating leaf devices in the same EVPN instance to ensure that they are part of the same VXLAN overlay network.

* VRF Target Consistency:

* The vrf-target parameter must also be consistent across devices to ensure that VRFs (Virtual Routing and Forwarding instances) are correctly imported and exported between leaf nodes.

Conclusion:

* Option B:Correct-Setting the same service-id on Leaf-2 ensures that it is part of the same VXLAN overlay as Leaf-1.

* Option D:Correct-The vrf-target on Leaf-2 should match Leaf-1 to ensure consistent routing policies and proper route exchange.

NEW QUESTION # 27

.....

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