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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	• Data Center Interconnect: For Data Center Engineers, this part focuses on interconnecting data centers, covering Layer 2 and Layer 3 stretching, stitching fabrics together, and using EVPN-signaled VXLAN for seamless communication between data centers.
Topic 2	• EVPN-VXLAN Signaling: This section assesses an understanding of Ethernet VPN (EVPN) concepts, including route types, multicast handling, and Multiprotocol BGP (MBGP). It also covers EVPN architectures like CRB and ERB, MAC learning, and symmetric routing.
Topic 3	• Data Center Multitenancy and Security: This section tests knowledge of single-tenant and multitenant data center setups. Candidates such as Data Center Professionals are evaluated on ensuring tenant traffic isolation at both Layer 2 and Layer 3 levels in shared infrastructure environments.
Topic 4	• VXLAN: This part requires knowledge of VXLAN, particularly how the control plane manages communication between devices, while the data plane handles traffic flow. Demonstrate knowledge of how to configure, Monitor, or Troubleshoot VXLAN.

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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q47-Q52):

NEW QUESTION # 47
Which parameter is used to associate a received route with a local VPN route table?

- A. VLAN ID
- B. route-target community
- C. VNI
- D. route-distinguisher

Answer: B

Explanation:
* Understanding VPN Route Table Association:
* In MPLS/VPN and EVPN networks, theroute-target communityis a BGP extended community attribute used to control the import and export of VPN routes. It associates received routes with the appropriate VPN route tables on the PE (Provider Edge) routers.
* Function of Route-Target Community:
* The route-target community tag ensures that routes are imported into the correct VRF (Virtual Routing and Forwarding) instance, allowing them to be correctly routed within the VPN.
Conclusion:
* Option A:Correct-The route-target community is used to associate received routes with a local VPN route table.

NEW QUESTION # 48
You are asked to automatically provision new Juniper Networks devices in your network with minimal manual intervention Before you begin, which two statements are correct? (Choose two.)

- A. You must have a DHCP server that provides the location of the software image and configuration files.
- B. You must have a system log (syslog) server to manage system log messages and alerts.
- C. You must have an NTP server to perform time synchronization.
- D. You must have a file server that stores software image and configuration files.

Answer: A,D

Explanation:
* Zero-Touch Provisioning (ZTP):
* ZTP is a feature that allows for the automatic provisioning of devices with minimal manual intervention. It is widely used in large-scale deployments to quickly bring new devices online.
* Key Requirements for ZTP:
* A. DHCP Server:A DHCP server is crucial for ZTP as it provides the necessary information to new devices, such as the IP address, the location of the software image, and configuration files.
* D. File Server:The file server is where the software image and configuration files are stored. The device downloads these files during the provisioning process.
* Incorrect Options:
* B. Syslog Server:While a syslog server is important for logging and monitoring, it is not a requirement for the initial provisioning process.
* C. NTP Server:An NTP server is used for time synchronization, which is essential for accurate logging and operation but not specifically required for ZTP.
Data Center References:
* ZTP simplifies the deployment process by automating the initial configuration steps, relying heavily on DHCP for communication and a file server for delivering the necessary configuration and software.

NEW QUESTION # 49
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;
        l3-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 ate unable to communicate. You have reviewed the touting and your hosts have the correct default route (.1) Referring to the exhibit, which two commands will solve the problem? (Choose two.)

- A. set interfaces irb unit 100 family inet address 192-168.100.1
- B. set vlans vn100 13-interface irb.100
- C. set routing-options static route 0.0.0.0/0 next-hop 192.168.200.10
- D. delete vlans vn200 13-interface irb.200

Answer: B,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 # 50
Exhibit.
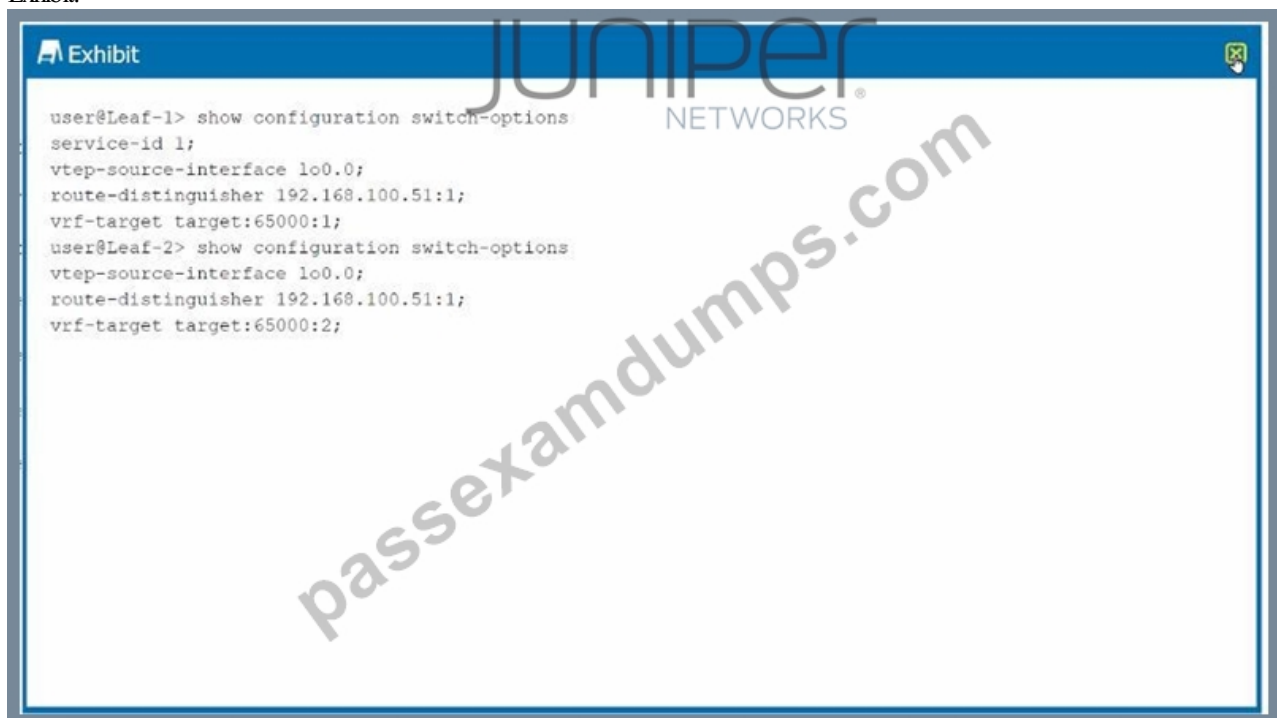
Connections between hosts connected to Leaf-1 and Leaf-2 are not working correctly.

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

Answer: B,E

NEW QUESTION # 51
Which three statements are correct about symmetric IRB routing with EVPN Type 2 routes? (Choose three.)

- A. Symmetric routing requires an extra transit VNI for each VRF.
- B. Symmetric routing is less efficient than asymmetric routing.
- C. An L3 interface (IRB) is required for each local VLAN.
- D. Symmetric routing requires MAC-VRF.
- E. Symmetric routing supports the EVPN service VLAN bundle.

Answer: A,C,D

Explanation:
* Symmetric IRB Routing with EVPN Type 2 Routes:
* Symmetric Routing: In symmetric IRB (Integrated Routing and Bridging), routing occurs in both directions at the ingress and egress leaf nodes using the same routing logic. This is contrasted with asymmetric routing, where different routing logic is used depending on the direction of the traffic.
* Required Components:
* Option A:An L3 IRB interface is necessary for each VLAN that participates in routing, as it handles the Layer 3 processing for the VLAN.
* Option B:MAC-VRF is required for symmetric routing to maintain a mapping of MAC addresses to the appropriate VRF, ensuring correct forwarding within the EVPN.
* Option D:A transit VNI (Virtual Network Identifier) is required for each VRF to encapsulate the Layer 3 traffic as it traverses the network, allowing the IP traffic to be appropriately forwarded.
Conclusion:
* Option A:Correct-Each local VLAN needs an IRB interface for L3 processing.
* Option B:Correct-MAC-VRF is necessary for handling MAC address resolution in symmetric routing.
* Option D:Correct-Transit VNIs are required for routing VRF-specific traffic across the network.
OptionsCandEare incorrect because:
* C:Symmetric routing can work with various VLAN models, including single or multiple VLANs within an EVPN instance.
* E:Symmetric routing is generally more efficient than asymmetric routing as it uses consistent routing logic in both directions.

NEW QUESTION # 52
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