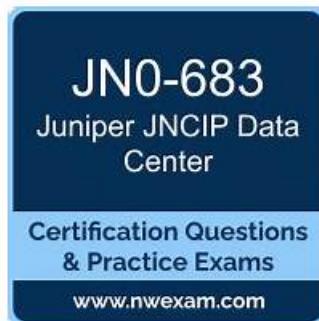


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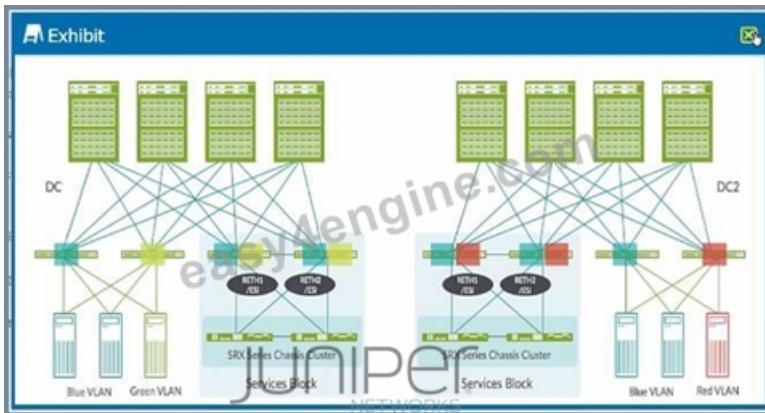
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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q10-Q15):

NEW QUESTION # 10

Exhibit.



Both DC and DC2 are using EVPN-VXLAN technology deployed using an ERB architecture. A server on the Red VLAN must communicate with a server on the Green VLAN. The Blue VLAN in DC and DC2 needs to be the same VLAN.

Which statement is correct in this scenario?

- A. The eight spine devices must be configured as border spine devices; a full mesh interconnect must exist between all eight spine devices and the Blue VLAN must be stitched together
- B. A lean super spine device must be added to DC and DC2; all VLANs must be stretched to the lean super spine device and the lean super spine devices must stitch all the VLANs together.
- C. An interconnect is required between four leaf devices in the services blocks; the Red VLAN and the Green VLAN must be stitched and the Blue VLAN must be stretched.
- D. An interconnect is required between the four SRX Series devices; the Blue VLAN must be stretched and a transit VNI must be added for the Red and Green VLANs.

Answer: D

Explanation:

* ERB Architecture in EVPN-VXLAN:

* ERB (Edge Routed Bridging) architecture is commonly used in data center networks where routing decisions are made at the network edge (leaf or border devices), while bridging (Layer 2 forwarding) is extended across the fabric. This architecture allows for efficient L3 routing while still enabling L2 services like VLANs to span across multiple locations.

* VLAN and VNI Configuration:

* The scenario specifies that a server on the Red VLAN needs to communicate with a server on the Green VLAN. Since these VLANs are in different data centers (DC and DC2), and given the use of EVPN-VXLAN, the communication between these VLANs will require a transit VNI (Virtual Network Identifier). This transit VNI will allow traffic to traverse the VXLAN tunnel across the DCI (Data Center Interconnect).

* Interconnect between SRX Series Devices:

* The exhibit shows SRX Series Chassis Clusters used as service devices (likely for firewalling or other security services). These devices need to be interconnected between the two data centers to ensure that VLANs can communicate effectively. The Blue VLAN needs to be stretched between DC and DC2 to maintain the same Layer 2 domain across both data centers.

Conclusion:

* Option B: Correct-Interconnecting the SRX Series devices will ensure the necessary service chaining, while stretching the Blue VLAN and adding a transit VNI for the Red and Green VLANs will enable the required communication across the data centers.

NEW QUESTION # 11

You are asked to interconnect two data centers using a method that provides EVPN Type 2 connectivity, is highly scalable, and limits VXLAN tunnels between border leaf devices. What will satisfy these requirements?

- A. EVPN Type 2 stretch
- B. Type 2 seamless stitching
- C. over the top full-mesh interconnect
- D. IP VPN

Answer: B

Explanation:

* Requirement Analysis:

* The scenario requires a solution to interconnect two data centers that supports EVPN Type 2 connectivity. The solution must be

highly scalable and must minimize the number of VXLAN tunnels between border leaf devices.

* Understanding Type 2 Seamless Stitching:

* Option D: Type 2 seamless stitching is a method used in EVPN to provide Layer 2 connectivity (such as MAC address mobility) across different VXLAN segments. It is scalable because it allows only necessary tunnels to be established between border leaf devices, reducing the overhead of maintaining a full mesh of VXLAN tunnels.

Conclusion:

* Option D: Correct - Type 2 seamless stitching satisfies the requirement by enabling scalable, efficient interconnection of two data centers with minimal VXLAN tunnels.

NEW QUESTION # 12

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

Answer: A,B

NEW QUESTION # 13

A local VTEP has two ECMP paths to a remote VTEP

Which two statements are correct when load balancing is enabled in this scenario? (Choose two.)

- A. The inner packet fields are used in the hash for load balancing.
- B. The source port in the UDP header is used to load balance VXLAN traffic.
- C. The inner packet fields are not used in the hash for load balancing.
- D. The destination port in the UDP header is used to load balance VXLAN traffic.

Answer: A,B

Explanation:

* Load Balancing in VXLAN:

* VXLAN uses UDP encapsulation to transport Layer 2 frames over an IP network. For load balancing across Equal-Cost Multi-Path (ECMP) links, various fields in the packet can be used to ensure even distribution of traffic.

* Key Load Balancing Fields:

* C. The source port in the UDP header is used to load balance VXLAN traffic: This is correct.

The source UDP port in the VXLAN packet is typically calculated based on a hash of the inner packet's fields. This makes the source port vary between packets, enabling effective load balancing across multiple paths.

* D. The inner packet fields are used in the hash for load balancing: This is also correct. Fields such as the source and destination IP addresses, source and destination MAC addresses, and possibly even higher-layer protocol information from the inner packet can be used to generate the hash that determines the ECMP path.

* Incorrect Statements:

* A. The inner packet fields are not used in the hash for load balancing: This is incorrect as the inner packet fields are indeed critical for generating the hash used in load balancing.

* B. The destination port in the UDP header is used to load balance VXLAN traffic: This is incorrect because the destination UDP port in VXLAN packets is typically fixed (e.g., port 4789 for VXLAN), and therefore cannot be used for effective load balancing.

Data Center References:

* Effective load balancing in VXLAN is crucial for ensuring high throughput and avoiding congestion on specific links. By using a combination of the source UDP port and inner packet fields, the network can distribute traffic evenly across available paths.

NEW QUESTION # 14

Exhibit.



The exhibit window shows the Juniper Networks logo at the top. The configuration output is as follows:

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

Answer: C,E

Explanation:

* Issue Analysis:

* The problem in the exhibit suggests a mismatch in configuration parameters between Leaf-1 and Leaf-2, leading to communication issues between hosts connected to these leaf devices.

* Configuration Mismatches:

* Service-ID:Leaf-1 has service-id 1 configured, while Leaf-2 does not have this parameter. For consistency and proper operation, the service-id should be the same across both leaf devices.

* VRF Target:Leaf-1 is configured with vrf-target target:65000:1, while Leaf-2 is configured with vrf-target target:65000:2. To allow proper VRF import/export between the two leafs, these should match.

* Corrective Actions:

* C. Configure the set switch-options vrf-target target:65000:1 parameter on Leaf-2:This aligns the VRF targets between the two leaf devices, ensuring they can correctly import and export routes.

* E. Configure the set switch-options service-id 1 parameter on Leaf-2:This ensures that both Leaf-1 and Leaf-2 use the same service ID, which is necessary for consistency in the EVPN- VXLAN setup.

Data Center References:

* Correct configuration of VRF targets and service IDs is critical in EVPN- VXLAN setups to ensure that routes and services are correctly shared and recognized between different devices in the network fabric.

NEW QUESTION # 15

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