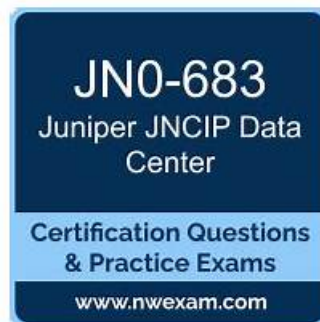


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## Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• <b>Data Center Interconnect:</b> 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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Data Center Multitenancy and Security:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Data Center Deployment and Management:</b> This section assesses the expertise of data center networking professionals like architects and engineers, focusing on key deployment concepts. Topics include Zero-touch provisioning (ZTP), which automates device setup in data centers without manual input.</li> </ul>

## Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q68-Q73):

### NEW QUESTION # 68

You are asked to set up an IP fabric that supports AI or ML workloads. You have chosen to use lossless Ethernet in this scenario, which statement is correct about congestion management?

- A. ECN is negotiated only among the switches that make up the IP fabric for each queue.
- B. ECN marks packets based on WRED settings.
- C. Only the source and destination devices need ECN enabled.
- **D. The switch experiencing the congestion notifies the source device.**

**Answer: D**

Explanation:

\* Understanding Lossless Ethernet and Congestion Management:

\* Lossless Ethernet is crucial for AI and ML workloads, where packet loss can significantly degrade performance. To implement lossless Ethernet, congestion management protocols like ECN (Explicit Congestion Notification) are used.

\* Role of ECN in Congestion Management:

\* Option A: In an IP fabric that supports lossless Ethernet, when a switch experiences congestion, it can mark packets using ECN. This marking notifies the source device of the congestion, allowing the source to reduce its transmission rate, thereby preventing packet loss.

Conclusion:

\* Option A: Correct-The switch experiencing congestion notifies the source device via ECN marking.

### NEW QUESTION # 69

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

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

**Answer: C,D**

Explanation:

Layer 2 frames are encapsulated by the source VTEP: In a VXLAN environment, Layer 2 frames (Ethernet frames) are encapsulated by the source VTEP (VXLAN Tunnel Endpoint) into VXLAN packets. The VTEP adds a VXLAN header to the original Layer 2 frame and forwards the encapsulated packet over the IP network to the destination VTEP.

A VXLAN packet does not contain a VLAN ID: VXLAN operates at Layer 2 and encapsulates Ethernet frames within a VXLAN header, but it does not carry a traditional VLAN ID as part of the encapsulated packet. Instead, it uses a VXLAN Network Identifier (VNI) to identify the broadcast domain.

## NEW QUESTION # 70

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. 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.
- B. 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
- C. 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.
- D. 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.

**Answer: C**

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 # 71

Exhibit.

Referring to the exhibit, the spine1 device has an underlay BGP group that is configured to peer with its neighbors' directly connected interfaces. Which two statements are true in this scenario? (Choose two.)

- A. The multihop statement is not required to establish the underlay BGP sessions.
- B. Load balancing for the underlay is configured correctly.
- C. The multihop statement is required to establish the underlay BGP sessions.
- D. Load balancing for the underlay is not configured correctly.

**Answer: A,B**

Explanation:

\* Understanding BGP Configuration in the Exhibit:

\* The exhibit shows a BGP configuration on spine1 with a group named underlay, configured to peer with directly connected interfaces of other devices in the network.

\* Multipath multiple-as: This statement allows the router to install multiple paths in the routing table for routes learned from different ASes, facilitating load balancing.

\* Key Statements:

\* A. The multihop statement is not required to establish the underlay BGP sessions: In this case, the BGP peers are directly connected (as indicated by their neighbor IP addresses), so the multihop statement is unnecessary. Multihop is typically used when BGP peers are not directly connected and packets need to traverse multiple hops.

\* D. Load balancing for the underlay is configured correctly: The multipath { multiple-as; } statement in the configuration enables load balancing across multiple paths from different autonomous systems, which is appropriate for underlay networks in data center fabrics.

\* Incorrect Statements:

\* C. The multihop statement is required to establish the underlay BGP sessions: This is incorrect because the peers are directly connected, making the multihop statement unnecessary.

\* B. Load balancing for the underlay is not configured correctly: This is incorrect because the configuration includes the necessary multipath settings for load balancing.

Data Center References:

\* BGP configurations in EVPN-VXLAN underlay networks are crucial for ensuring redundancy, load balancing, and efficient route propagation across the data center fabric.

## NEW QUESTION # 72

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

**Answer: A,C**

Explanation:

You need to configure a next-hop self policy: When using EBGP, the next-hop IP address in the routing advertisements might not be reachable from the receiving device, causing the routes to be marked as hidden. By configuring the next-hop-self-policy, the leaf devices will change the next-hop IP to their own IP address for the routes they advertise, making them reachable within the fabric and allowing the routes to be installed in the routing table.

You need to configure loops 2: When all leaves share the same AS (common-AS design), BGP loop prevention drops routes learned from the same AS. Configuring loops 2 allows the leaf to accept routes with its own AS in the path twice, which is needed in an eBGP IP fabric with repeated AS numbers.

## NEW QUESTION # 73

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