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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• Data Center Deployment and Management: 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.
Topic 4	• 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 5	• Layer 3 Fabrics: This section measures the knowledge of professionals managing IP-based networks in data centers. It covers IP fabric architecture and routing, ensuring candidates understand how the network is structured for scalability and how traffic is routed efficiently.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q17-Q22):

NEW QUESTION # 17
Exhibit.
□
Referring to the configuration shown in the exhibit, assume that there is no external router present, and that the configuration is fabric-only.
Which two statements are true about the example configuration? (Choose two.)

- A. Devices in irb.400 (vlan 400) and irb.800 (vlan 800) are able to communicate over the fabric.
- B. Devices in irb.400 (vlan 400) are not able to communicate directly with devices in routing instance Customer A.
- C. Devices in routing instance Customer A are able to communicate with devices in routing instance Customer B
- D. VNI 10006is assigned to vlan 800 (irb.800).

Answer: A,B

Explanation:
* Understanding the Configuration:
* The exhibit shows configurations for two VRFs (Customer_A and Customer_B) with specific VLANs and VNIs assigned. Each VRF has interfaces (IRBs) associated with particular VLANs.
* Communication Between VLANs and Routing Instances:
* Option B:VLAN 400 (irb.400) is part of Customer_B, and there is no direct connection or routing between Customer_A and Customer_B in the configuration provided. Therefore, devices in irb.400 cannot communicate directly with devices in the Customer_A routing instance.
* Option D:Since irb.400 (VLAN 400) and irb.800 (VLAN 800) are part of the same routing instance (Customer_B), they can communicate over the fabric using VXLAN encapsulation.
Conclusion:
* Option B:Correct-There is no direct communication between devices in irb.400 (Customer_B) and routing instance Customer_A.
* Option D:Correct-Devices in VLAN 400 and VLAN 800 can communicate within the Customer_B routing instance over the fabric.

NEW QUESTION # 18
Exhibit.
□
Referring tothe exhibit, which statement is correct?

- A. The MAC address is known but not reachable by the remote VTEP
- B. The remote VTEP is not responding.
- C. VNI 100 is not configured on the remote VTEP.
- D. The MAC address is unknown and not in the forwarding table of the remote VTEP.

Answer: D

Explanation:
* Analyzing the Exhibit Output:
* The command ping overlay tunnel-type vxlan is used to test the VXLAN tunnel between two VTEPs (VXLAN Tunnel Endpoints). The output shows a warning about missing hash parameters, but more importantly, it displays the result: End-System

Not Present.
* Understanding the Response:
* The message End-System Not Present indicates that the remote VTEP (192.168.2.20) did not find the MAC address 00:00:5E:00:53:CC in its forwarding table. This typically means that the MAC address is unknown to the remote VTEP, and as a result, it could not forward the packet to the intended destination.
Conclusion:
* Option B:Correct-The MAC address is unknown and is not in the forwarding table of the remote VTEP, which is why the system reports that the "End-System" is not present.

NEW QUESTION # 19

You want to provide a OCI that keeps each data center routing domain isolated, while also supporting translation of VNIs. Which DCI scheme allows these features?

- A. over the top (OTT) with VNI translation enabled
- B. VXLAN stitching
- C. MPLS DCI label exchange
- D. over the top (OTT) with proxy gateways

Answer: B

Explanation:
* Understanding DCI (Data Center Interconnect) Schemes:
* DCI schemes are used to connect multiple data centers, enabling seamless communication and resource sharing between them. The choice of DCI depends on the specific requirements, such as isolation, VNI translation, or routing domain separation.
* VXLAN Stitching:
* VXLAN stitching involves connecting multiple VXLAN segments, allowing VNIs (VXLAN Network Identifiers) from different segments to communicate with each other while maintaining separate routing domains.
* This approach is particularly effective for keeping routing domains isolated while supporting VNI translation, making it ideal for scenarios where you need to connect different data centers or networks without merging their control planes.
* Other Options:
* A. MPLS DCI label exchange:This option typically focuses on MPLS-based interconnections and does not inherently support VNI translation or isolation in the context of VXLAN.
* B. Over the top (OTT) with VNI translation enabled:This could support VNI translation but does not inherently ensure routing domain isolation.
* D. Over the top (OTT) with proxy gateways:This typically involves using external gateways for traffic routing and may not directly support VNI translation or isolation in the same way as VXLAN stitching.
Data Center References:
* VXLAN stitching is a powerful method in multi-data center environments, allowing for flexibility in connecting various VXLAN segments while preserving network isolation and supporting complex interconnect requirements.

NEW QUESTION # 20

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

Answer: C,D

Explanation:
When implementing seamless VXLAN stitching between two data centers, the Ethernet Segment Identifier (ESI) must match in both data centers to ensure that the same multi-homed segment is recognized consistently across the environments. This allows seamless failover and redundancy. However, the translation VNI (Virtual Network Identifier) must be different in each data center because VXLAN stitching involves mapping different VNIs to enable interconnectivity between distinct VXLAN domains.
If the same translation VNI is used in both data centers, there would be no differentiation between network segments, leading to potential routing and forwarding issues. Keeping them different ensures proper traffic isolation and mapping.

NEW QUESTION # 21

You are asked to deploy 100 QFX Series devices using ZTP Each OFX5120 requires a different configuration. In this scenario, what are two components that you would configure on the DHCP server?
(Choose two.)

- A. the management IP address for each OFX5120
- B. the MAC address for each OFX5120
- C. the MAC address of the FTP server
- D. the IP address of the FTP server

Answer: A,B

Explanation:
* Zero Touch Provisioning (ZTP):
* ZTP allows for the automated configuration of network devices, like QFX Series switches, without manual intervention. During ZTP, a switch will obtain its configuration from a DHCP server and then download the required software and configuration files from a specified server (e.
g., FTP, HTTP).
* DHCP Server Configuration:
* Option B:The DHCP server needs to know theMAC address for each QFX5120to provide a specific configuration based on the device identity. By mapping the MAC address to a particular configuration, the DHCP server can ensure that each switch gets the correct configuration.
* Option D:Themanagement IP address for each QFX5120must also be assigned by the DHCP server. This IP address allows the device to communicate on the network and access the configuration files and other required resources during the ZTP process.
Conclusion:
* Option B:Correct-MAC addresses allow the DHCP server to identify each QFX5120 and assign the appropriate configuration.
* Option D:Correct-Management IP addresses are essential for network communication during ZTP.

NEW QUESTION # 22

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