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Introduction

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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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 2	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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.

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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q23-Q28):

NEW QUESTION # 23

Exhibit:

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 route-distinguisher 192.168.100.512 parameter on Leaf-1.
- C. Configure the setswitch-options vtep-source-interface 100. 0 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 # 24

Which two requirements are needed to facilitate over-the-top DCI? (Choose two.)

- A. EVPN route-types must be advertised to all leaf devices.
- B. All spine loopbacks in each network must be reachable.
- C. EVPN route-types must be advertised to all spine devices.
- D. All leaf VTEPs in each network must be reachable.

Answer: A,D

Explanation:

All leaf VTEPs in each network must be reachable: In over-the-top Data Center Interconnect (DCI) using EVPN-VXLAN, the leaf VTEPs (VXLAN Tunnel Endpoints) in both data centers need to be reachable from each other. This is crucial for the successful exchange of VXLAN traffic and the proper operation of the overlay network between the data centers.

EVPN route-types must be advertised to all leaf devices: To extend Layer 2 and Layer 3 services seamlessly across data centers in OTT DCI, EVPN route types must be advertised to all leaf devices to maintain the unified control plane and support endpoint reachability.

NEW QUESTION # 25

Click the Exhibit button. You are troubleshooting a DCI connection to another data center. The BGP session to the provider is established, but the session to Border-Leaf-2 is not established.

Referring to the exhibit, which configuration change should be made to solve this problem?

□

- A. delete protocols bgp group OVERLAY accept-remote-nexthop
- B. set protocols bgp group overlay export loopbacks
- C. delete protocols bgp group UNDERLAY advertise-external
- D. set protocols bgp group PROVIDER export LOOPBACKS

Answer: A

Explanation:

The "accept-remote-nexthop" statement allows the router to accept prefixes with a next hop that is not directly connected, which can cause BGP neighbor sessions to fail if not needed or properly supported.

Removing "accept-remote-nexthop" from the OVERLAY group is a common fix to resolve BGP session establishment issues with EVPN neighbors.

NEW QUESTION # 26

You are asked to implement VXLAN group-based policies (GBPs) in your data center. Which two statements are correct in this scenario? (Choose two.)

- A. VXLAN GBP uses scalable group tags that must be configured statically on each switch and activated through 802.1X.
- B. VXLAN GBP uses scalable group tags that may be configured on a RADIUS server and pushed to the switch through 802.1X.
- C. VXLAN GBP ensures consistent application of security group policies throughout the network.
- D. VXLAN GBP ensures consistent application of BGP groups throughout the network.

Answer: B,C

Explanation:

VXLAN GBP ensures consistent application of security group policies throughout the network: VXLAN Group-Based Policies (GBP) allow for the consistent application of policies related to security groups, network access, and traffic control across all devices in the VXLAN fabric. This helps ensure that security policies are applied consistently based on group membership rather than relying solely on IP subnets or VLANs.

VXLAN GBP uses scalable group tags that may be configured on a RADIUS server and pushed to the switch through 802.1X: In VXLAN GBP, scalable group tags (SGTs) are used to identify group memberships. These tags can be configured on a RADIUS server and pushed to the switch using 802.1X authentication, which dynamically applies group-based policies based on user or device attributes.

NEW QUESTION # 27

You are deploying multiple Juniper switches at the same location. Your switches are currently using the factory-default configuration.

In this scenario, which two statements are correct? (Choose two.)

- A. The DHCP server configuration cannot provide Junos version requirements to DHCP clients.
- **B. The DHCP server configuration can provide Junos version requirements to DHCP clients.**
- C. The switch will try to request an IP address from a DHCP server using only the management interface.
- D. The switch will try to request an IP address from a DHCP server using all interfaces that are connected and are operational.

Answer: B,D

Explanation:

By default, Juniper switches with factory-default configurations attempt to obtain an IP address via DHCP on any connected and operational interface, not just the management interface.

The DHCP server configuration can include options to provide Junos version requirements, such as bootfile information, to DHCP clients for automated provisioning or upgrades.

NEW QUESTION # 28

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