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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	• 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 3	• 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.
Topic 4	• 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.

Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q19-Q24):

NEW QUESTION # 19
As part of the onboarding process for new switches being added to your data centers, your company uses Juniper Networks' ZTP process. As part of the ZTP process, a script is executed by the devices being onboarded.
Which statement is correct in this scenario?

- A. The Junos ZTP process supports Jscript, Ansible, and Perl.
- B. The Junos ZTP process supports Python, SLAX, and Perl.
- C. The Junos ZTP process supports Shell, Jscript, and Ansible.
- D. The Junos ZTP process supports Shell, Python, and SLAX.

Answer: D

Explanation:
Juniper Networks' ZTP (Zero Touch Provisioning) process automates the deployment of new devices by allowing them to fetch and execute scripts for configuration and setup as they are powered on and connected to the network.
Supported Scripting Languages:
The Junos OS supports several scripting languages that can be used during the ZTP process:
Shell scripts are often used for general automation tasks. Python is a widely supported language in Junos, offering powerful scripting capabilities for automating network tasks.
SLAX (Service Logic Execution Environment) is a scripting language specific to Junos, designed to automate configuration tasks and simplify network operations.

NEW QUESTION # 20
Exhibit.

Referring to the exhibit, which statement Is true?

- A. An ERB architecture is being used.
- B. A PBB-EVPN architecture is being used.
- C. A CRB architecture is being used.
- D. An OTT architecture is being used.

Answer: A

Explanation:
* Understanding Network Architectures:
* ERB (Edge Routed Bridging) architecture involves routing at the network's edge (leaf nodes), while traffic between leaf nodes is

switched. This is commonly used in VXLAN-EVPN setups.
* Analysis of the Exhibit:
* The exhibit shows configurations related to routing instances, VXLAN, and VLANs, with VNIs being used for each VLAN. This setup is characteristic of an ERB architecture where each leaf device handles Layer 3 routing for its connected devices.
Conclusion:
* Option B:Correct-The configuration shown corresponds to an ERB architecture where routing occurs at the network's edge (leaf devices).

NEW QUESTION # 21
Exhibit.

Referring to the exhibit, the spinel 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. Load balancing for the underlay is not configured correctly.
- D. The multihop statement is required to establish the underlay BGP sessions.

Answer: B,D

NEW QUESTION # 22
Exhibit.

Both DC and DC2 ate 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 mush 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 atransit 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 # 23
You are asked to interconnect two of your company's data centers across the IP backbone. Both data centers have their own

unique IP space and do not require any bridging.

In this scenario, which two actions would accomplish this task? (Choose two.)

- A. Configure peering for EVPN between border leaf nodes in each data center.
- B. Configure a Type 5 EVPN route for each unique prefix.
- C. Configure a Type 2 EVPN route for each unique prefix.
- D. Configure peering for EVPN between all leaf nodes within each data center.

Answer: A,B

Explanation:

Configure peering for EVPN between border leaf nodes in each data center: In order to interconnect the data centers across the IP backbone, you would configure EVPN peering between the border leaf nodes in each data center. Border leaf nodes act as the gateway between the local data center and the external network (in this case, the inter-data-center IP backbone). This ensures that the data centers can communicate and exchange routing information.

Configure a Type 5 EVPN route for each unique prefix: Type 5 EVPN routes are used for inter-subnet communication (i.e., for advertising IP prefixes between data centers). Since the data centers have unique IP address spaces and do not require bridging, Type 5 routes are appropriate for advertising these unique prefixes across the data centers.

NEW QUESTION # 24

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