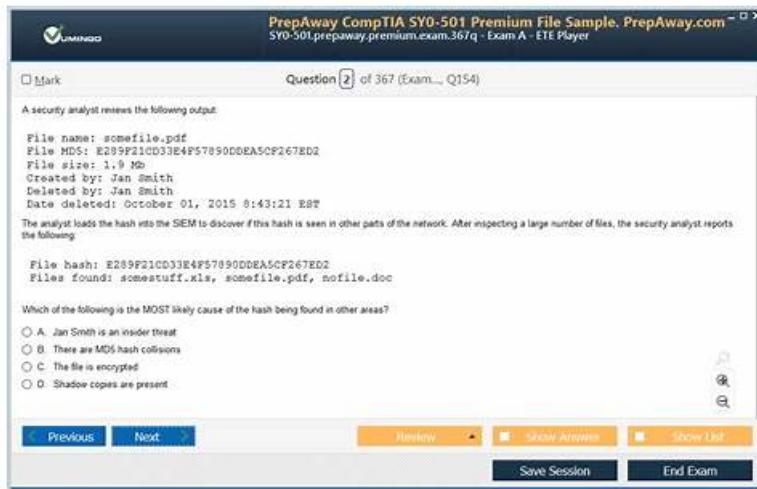


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Juniper JN0-683 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.

Topic 3	<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.
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Juniper Data Center, Professional (JNCIP-DC) Sample Questions (Q43-Q48):

NEW QUESTION # 43

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. over the top full-mesh interconnect
- **C. Type 2 seamless stitching**
- D. IP VPN

Answer: C

Explanation:

Type 2 seamless stitching is the best solution for interconnecting two data centers while providing EVPN Type 2 connectivity (MAC/IP routes for end-host reachability), high scalability, and limiting VXLAN tunnels between border leaf devices. This method ensures that MAC addresses are properly learned and distributed across the two data centers without requiring a full mesh of VXLAN tunnels between all leaf switches. Instead, VXLAN tunnels are limited to border leaf devices, reducing the complexity and improving scalability.

NEW QUESTION # 44

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. The switch experiencing the congestion notifies the source device.**
- C. ECN marks packets based on WRED settings.
- D. Only the source and destination devices need ECN enabled.

Answer: B

Explanation:

In a lossless Ethernet environment, such as one designed to support AI or ML workloads, ECN (Explicit Congestion Notification) is used to signal congestion to the source device. When congestion occurs in the network, the switch experiencing the congestion marks packets with ECN to notify the source device. This allows the source to adjust its sending rate, helping to avoid further congestion and ensuring that traffic continues to flow efficiently.

NEW QUESTION # 45

Which statement is correct about a collapsed fabric EVPN-VXLAN architecture?

- **A. Border gateway functions occur on border leaf devices.**
- B. It supports multiple vendors in the fabric as long as all the spine devices are Juniper devices deployed with L2 VTEPs
- C. Using Virtual Chassis at the leaf layer increases resiliency.
- D. Fully meshed back-to-back links are needed between the spine devices.

Answer: A

Explanation:

* Collapsed Fabric Architecture:

* A collapsed fabric refers to a simplified architecture where the spine and leaf roles are combined, often reducing the number of devices and links required.

* In this architecture, the spine typically handles core switching, while leaf switches handle both access and distribution roles.

* Understanding Border Gateway Functionality:

* Border gateway functions include connecting the data center to external networks or other data centers.

* In a collapsed fabric, these functions are usually handled at the leaf level, particularly on border leaf devices that manage the ingress and egress of traffic to and from the data center fabric.

* Correct Statement:

* D. Border gateway functions occur on border leaf devices: This is accurate in collapsed fabric architectures, where the border leaf devices take on the role of managing external connections and handling routes to other data centers or the internet.

Data Center References:

* The collapsed fabric model is advantageous in smaller deployments or scenarios where simplicity and cost-effectiveness are prioritized. It reduces complexity by consolidating functions into fewer devices, and the border leaf handles the critical task of interfacing with external networks.

In conclusion, border gateway functions are effectively managed at the leaf layer in collapsed fabric architectures, ensuring that the data center can communicate with external networks seamlessly.

NEW QUESTION # 46

Which two statements are true about IP fabrics using unnumbered BGP? (Choose two.)

- A. Unnumbered BGP requires that family inet is configured on each interface.
- B. Unnumbered BGP peering automatically provisions IPv4 peering
- C. Unnumbered BGP requires that family inet6 is configured on each interface.
- D. Unnumbered BGP peering automatically provisions IPv6 peering.

Answer: A,B

Explanation:

* Understanding Unnumbered BGP:

* Unnumbered BGP (Border Gateway Protocol) allows BGP peering between routers without assigning specific IP addresses to the interfaces. Instead, it uses the loopback address or another router identifier for the BGP session, making IP address management more straightforward in large-scale networks.

* Family inet Configuration:

* Option C: The family inet configuration is required on each interface involved in unnumbered BGP peering to support IPv4 address families. This ensures that IPv4 peering sessions can be established between devices.

* Automatic IPv4 Peering:

* Option D: Unnumbered BGP peering automatically provisions IPv4 peering sessions. This simplifies the configuration by eliminating the need to manually assign and manage IP addresses for BGP peering.

Conclusion:

* Option C: Correct - Unnumbered BGP requires the family inet configuration for IPv4.

* Option D: Correct - Unnumbered BGP automatically provisions IPv4 peering, simplifying setup.

NEW QUESTION # 47

You are asked to automatically provision new Juniper Networks devices in your network with minimal manual intervention. Before you begin, which two statements are correct? (Choose two.)

- A. You must have a file server that stores software image and configuration files.
- B. You must have a DHCP server that provides the location of the software image and configuration files.
- C. You must have an NTP server to perform time synchronization.
- D. You must have a system log (syslog) server to manage system log messages and alerts.

Answer: A,B

Explanation:

* Zero-Touch Provisioning (ZTP):

* ZTP is a feature that allows for the automatic provisioning of devices with minimal manual intervention. It is widely used in large-scale deployments to quickly bring new devices online.

* Key Requirements for ZTP:

* A. DHCP Server: A DHCP server is crucial for ZTP as it provides the necessary information to new devices, such as the IP address, the location of the software image, and configuration files.

* D. File Server: The file server is where the software image and configuration files are stored. The device downloads these files during the provisioning process.

* Incorrect Options:

* B. Syslog Server: While a syslog server is important for logging and monitoring, it is not a requirement for the initial provisioning process.

* C. NTP Server: An NTP server is used for time synchronization, which is essential for accurate logging and operation but not specifically required for ZTP.

Data Center References:

* ZTP simplifies the deployment process by automating the initial configuration steps, relying heavily on DHCP for communication and a file server for delivering the necessary configuration and software.

NEW QUESTION # 48

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