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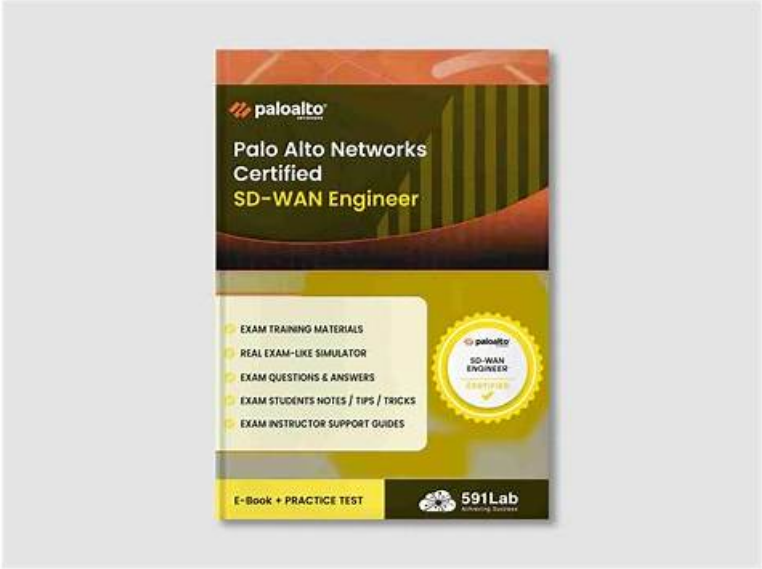

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Palo Alto Networks SD-WAN-Engineer Exam Syllabus Topics:

Topic	Details

Topic 1	• Operations and Monitoring: This domain addresses monitoring device statistics, controller events, alerts, WAN Clarity reports, real-time network visibility tools, and SASE-related event management.
Topic 2	• Planning and Design: This domain covers SD-WAN planning fundamentals including device selection, bandwidth and licensing planning, network assessment, data center and branch configurations, security requirements, high availability, and policy design for path, security, QoS, performance, and NAT.
Topic 3	• Unified SASE: This domain covers Prisma SD-WAN integration with Prisma Access, ADEM configuration, IoT connectivity via Device-ID, Cloud Identity Engine integration, and User • Group-based policy implementation.
Topic 4	• Troubleshooting: This domain focuses on resolving connectivity, routing, forwarding, application performance, and policy issues using co-pilot data analysis and analytics for network optimization and reporting.
Topic 5	• Deployment and Configuration: This domain focuses on Prisma SD-WAN deployment procedures, site-specific settings, configuration templates for different locations, routing protocol tuning, and VRF implementation for network segmentation.

Palo Alto Networks SD-WAN Engineer Sample Questions (Q42-Q47):

NEW QUESTION # 42
A network engineer is able to ping and traceroute from SD-WAN branch IP 192.168.1.123 to servers in primary data center - DC1, but is unable to ping or traceroute to a server 10.2.2.22 in the newly configured secondary data center, DC2.
The DC2 ION device is advertising the branch IP subnet 192.168.1.0/24 to the DC2 core via eBGP Core Peer. The DC2 data center site has site prefix 10.2.2.0/23 configured.
Which configuration will resolve the issue in this scenario?

- A. The default 0.0.0.0/0 static route to the DC2 ION pointing to the DC2 next hop.
- B. Remove site prefix 10.2.2.0/23 from DC2 site configuration.
- C. Reconfigure eBGP Core Peer as Edge Peer type.
- D. Reconfigure eBGP Core Peer to iBGP Core Peer.

Answer: A

Explanation:
Comprehensive and Detailed Explanation at least 150 to 250 words each from Palo Alto Networks SD-WAN Engineer documents:
In a Prisma SD-WAN deployment, the routing of traffic between branches and Data Centers (DCs) relies on the proper synchronization between the AppFabric (the overlay) and the local routing protocols (the underlay/LAN side). In this scenario, the branch can successfully reach DC1, indicating the branch ION is correctly participating in the fabric. However, traffic to DC2 (10.2.2.22) is failing.
The DC2 site has the site prefix 10.2.2.0/23 configured. In Prisma SD-WAN, defining a site prefix informs the Controller that this specific subnet "belongs" to that site, causing the Controller to advertise reachability for this prefix to all other ION devices in the fabric. Consequently, when the branch ION (192.168.1.123) attempts to reach 10.2.2.22, it correctly identifies DC2 as the destination and encapsulates the traffic toward the DC2 ION.
The bottleneck occurs once the packet arrives at the DC2 ION. While the ION is advertising the branch subnet (192.168.1.0/24) to the DC Core (ensuring the return path), the ION itself must know how to forward the incoming traffic from the branch to the internal DC network. If the DC2 ION does not have a specific route in its local routing table for the 10.2.2.0/23 subnet pointing to the DC Core's internal interface, the packet will be dropped.
According to Palo Alto Networks best practices for Data Center ION deployment, a static default route (0.0.0.0/0) should be configured on the ION device pointing toward the DC Core's next-hop IP address. This ensures that any traffic received from the AppFabric destined for internal DC resources-which are not directly connected to the ION-is successfully handed off to the core switching fabric for final delivery. Adding this default route (Option A) resolves the reachability issue by providing the "last-hop" routing instruction within the DC.

NEW QUESTION # 43
For how many hours are Prisma SD-WAN VPN shared secrets valid?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:
Comprehensive and Detailed Explanation at least 150 to 250 words each from Palo Alto Networks SD-WAN Engineer documents:
In the Prisma SD-WAN architecture, security is built directly into the AppFabric using a centralized, controller-led approach to key management. Unlike traditional VPNs that rely on manual Internet Key Exchange (IKE) or static Pre-Shared Keys (PSKs) which can be administratively burdensome and security-vulnerable, Prisma SD-WAN automates the entire lifecycle of encrypted tunnels. The Prisma SD-WAN Controller acts as the central authority for identity and key distribution for all ION (Instant-On Network) devices within the tenant's fabric.
Specifically, the VPN shared secrets used to secure these tunnels are ephemeral and are valid for exactly 24 hours. This 24-hour validity period is a security best practice implemented by Palo Alto Networks to limit the "blast radius" or window of exposure in the unlikely event that a key is compromised. The controller automatically handles the generation, distribution, and rotation of these secrets. Before the 24-hour timer expires, the controller pushes new keys to the ION devices, which then perform a hitless rollover. This ensures that the data plane remains active and encrypted without requiring manual intervention from a network administrator. If an ION device loses its control plane connection to the controller, it will maintain its existing tunnels using the current keys until they expire, at which point it must re-authenticate with the controller to receive a new set of valid secrets. This automated rotation is a core component of the Prisma SD-WAN Zero-Trust security model.

NEW QUESTION # 44
What is the default behavior of the Zone-Based Firewall (ZBFW) for traffic originating from the ION device itself (e.g., DNS queries, NTP sync, or Controller connectivity) destined for the "Internet" zone?

- A. It is allowed by the implicit "Self-Zone" allow rule.
- B. It is allowed only if the "Management" interface is used.
- C. It is inspected by the "Global" security stack but bypasses local rules.
- D. It is denied by the default "Deny All" rule unless explicitly allowed.

Answer: A

Explanation:
Comprehensive and Detailed Explanation
The Self-Zone is a predefined security zone in the Prisma SD-WAN ZBFW that represents the ION device's own control plane and management traffic.
Default Rule: The security policy contains an implicit, uneditable default rule that Allows traffic originating from the Self-Zone to any destination zone (Internet, Private WAN, etc.).
Rationale: This ensures that the device can always perform essential critical functions-such as connecting to the Cloud Controller, resolving DNS, syncing time via NTP, and establishing VPN tunnels-without the administrator needing to manually create "Allow" rules for the device itself. If this traffic were blocked by a "Deny All" default, the device would become unmanageable (bricked) immediately after applying the policy.

NEW QUESTION # 45
Which component of the Prisma SD-WAN solution is responsible for the deep application identification (App-ID) and the generation of flow metrics (Network Transfer Time, Server Response Time) at the branch?

- A. The ION Device Data Plane
- B. The Prisma SD-WAN Controller
- C. The CloudBlade container
- D. The API Gateway

Answer: A

Explanation:
Comprehensive and Detailed Explanation
The ION Device Data Plane (the software running locally on the hardware appliance at the branch) is the component responsible for

the heavy lifting of traffic analysis.
Edge Processing: Prisma SD-WAN uses an "Application-Defined" architecture. The ION device performs Deep Packet Inspection (DPI) on the first few packets of a flow to identify the application (e.g., distinguishing "Skype Video" from "Skype Chat").
Metric Calculation: The ION device timestamping engine calculates the performance metrics (RTT, NTT, SRT) in real-time as packets pass through its interfaces. It aggregates this metadata.
Role of Controller (B): The Controller collects and visualizes this data (Analytics), but it does not generate it. The Controller does not sit in the data path of the user traffic. If the ION relied on the controller for App-ID, latency would be unacceptably high. Therefore, all detection and metric generation happens locally on the ION Device.

NEW QUESTION # 46
A network administrator is viewing the Flow Browser to investigate a report that a specific user cannot access an internal web server. The flow entry for this traffic shows the "Flow State" as "INIT" and it remains in that state until it times out.
What does the "INIT" state indicate about the traffic flow?

- A. The ION device received the SYN packet from the client but never saw a SYN-ACK response from the server.
- B. The flow was denied by a Zone-Based Firewall policy on the ION.
- C. The TCP 3-way handshake was completed successfully, and data is being transferred.
- D. The traffic is being buffered while the ION waits for a dynamic VPN tunnel to establish.

Answer: A

Explanation:
Comprehensive and Detailed Explanation
In the Prisma SD-WAN Flow Browser, the Flow State provides a real-time snapshot of the TCP/UDP session lifecycle.
INIT (Initialization): This state indicates that the ION device has seen the initial packet of a new session (typically a TCP SYN) originating from the client (Source), but it has not yet seen a return packet (such as a TCP SYN-ACK) from the destination server.
Diagnosis: A flow stuck in INIT is a classic indicator of a "Blackhole" or reachability issue downstream. It implies that the ION successfully routed the packet out toward the destination, but the destination did not reply. Common causes include:
The server is offline.
A firewall in the path (or on the server itself) is dropping the traffic.
Routing is broken on the return path (asymmetric routing where the return traffic bypasses the ION).
If the flow had been denied by the ION's own firewall (Option C), the state would typically show as DENY or REJECT. If the handshake completed (Option A), the state would be ESTABLISHED. Therefore, INIT points to a lack of response from the remote end.

NEW QUESTION # 47
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