2026 SD-WAN-Engineer–100% Free Reliable Test Preparation | Professional SD-WAN-Engineer New Question

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

Topic	Details
Topic 1	• 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.
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	• 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 4	• 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 5	• 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.

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Palo Alto Networks SD-WAN Engineer Sample Questions (Q44-Q49):

NEW QUESTION # 44
When configuring a Path Policy rule for a "Real-Time Video" application, the administrator wants to ensure the traffic uses the path with the lowest packet loss.
How does the Prisma SD-WAN ION determine the "Packet Loss" metric for a given path when there is no active user traffic flowing on that link?

- A. It queries the ISP's router via SNMP to retrieve interface error counters.
- B. It defaults to a static value of 0% loss until user traffic begins.
- C. It relies solely on Passive Monitoring of TCP retransmissions from other user traffic on that link.
- D. It sends Active Probes (synthetic UDP packets) across the Secure Fabric to measure path quality continuously.

Answer: D

Explanation:
Comprehensive and Detailed Explanation
Prisma SD-WAN utilizes Link Quality Monitoring (LQM) to maintain a real-time health score for every WAN path.
To ensure the system knows the quality of a path before sending critical user traffic onto it, the ION device uses Active Probing.
Mechanism: The ION sends synthetic probe packets (typically UDP) across the Secure Fabric (VPN tunnels) and Direct Internet paths to its peers. These probes measure Latency, Jitter, and Packet Loss.
Active vs. Passive: While the system does use Passive Monitoring (observing actual user flows) when traffic is present to reduce overhead, Active Probes are essential for idle links or backup paths. Without active probing, the ION would have no data to make an intelligent steering decision for the first packet of a new video call. This ensures that "Real-Time" policies always have up-to-date metrics to select the best path immediately.

NEW QUESTION # 45
Based on the HA topology image below, which two statements describe the end-state when power is removed from the ION 1200-S labeled "Active", assuming that the ION labeled "Standby" becomes the active ION? (Choose two.)

- A. The newly active ION will send a gratuitous ARP to the LAN for the IP address of any SVIs.
- B. Both the connection to ISP A and the connection to LTE/5G will be usable.
- C. The VRRP Virtual IP address assigned to any SVIs will be moved to the newly active ION.
- D. The connection to ISP A will be usable, but the connection to LTE/5G will not.

Answer: A,B

Explanation:
Comprehensive and Detailed Explanation
This scenario depicts a High Availability (HA) topology utilizing the ION 1200-S model's Fail-to-Wire (bypass) capabilities to share WAN links between two devices without needing external switches for every WAN connection.
1. WAN Link Availability (Statement A):

The diagram illustrates a "daisy-chain" cabling method supported by the ION 1200-S bypass pairs.
ISP A (Green): Connects directly to the "Standby" (Left) unit first. Since the Standby unit remains powered on, it maintains direct access to ISP A.
LTE/5G (Blue): Connects to the "Active" (Right) unit first. The connection then loops through a bypass pair on the Active unit to the Standby unit. When power is removed from the "Active" unit, the fail-to-wire relays on its Ethernet ports close physically. This creates a passive electrical bridge that connects the LTE modem directly to the Standby unit. The Standby unit (now becoming Active) will detect the link state change and successfully utilize the LTE connection. Therefore, both WAN links remain usable.
2. LAN Failover Mechanism (Statement C):
Prisma SD-WAN ION devices typically use a VRRP-like mechanism for LAN redundancy.
When the "Active" node fails (loses power), the "Standby" node stops receiving keepalives and promotes itself to the Active state.
To ensure downstream switches and clients immediately send traffic to the new Active unit, it must update their ARP tables. It does this by broadcasting a Gratuitous ARP (GARP) packet for the Virtual IP (VIP) address of the Switch Virtual Interfaces (SVIs). This action informs the network that the MAC address associated with the Gateway I1P is now reachable via the port connected to the new Active ION.234

NEW QUESTION # 46
In a Prisma SD-WAN deployment, what is the defining characteristic of a "Standard VPN" compared to a "Secure Fabric Link"?

- A. Standard VPNs use GRE encapsulation, while Secure Fabric Links use VXLAN.
- B. Standard VPNs are manually configured IPSec tunnels to non-ION endpoints, while Secure Fabric Links are automated tunnels between ION devices.
- C. Standard VPNs support BGP, whereas Secure Fabric Links only support static routing.
- D. Standard VPNs are automatically built between ION devices, while Secure Fabric Links require manual configuration.

Answer: B

Explanation:
Comprehensive and Detailed Explanation
In the Prisma SD-WAN architecture, the terminology distinguishes between "Native" automation and "Legacy" interoperability.
Secure Fabric Links: These are the proprietary, automated overlay tunnels created between two Prisma SD-WAN ION devices (e.g., Branch ION to Data Center ION). The controller automatically manages the IP addressing, key rotation, and routing for these links. You do not manually configure "Phase 1" or "Phase 2" parameters for Secure Fabric links.
Standard VPNs: These are traditional, standards-based IPSec tunnels configured to connect an ION device to a Non-ION endpoint (Third-Party Peer). This is used for "Data Center to Data Center" connections where one side is a legacy firewall (e.g., Cisco ASA, Palo Alto Networks NGFW) or for connecting to cloud security services (SSE) that do not have a specific CloudBlade integration. For a Standard VPN, the administrator must manually define the IKE/IPSec profiles, pre-shared keys, and peer IP addresses to match the third-party device's configuration.

NEW QUESTION # 47
A network installer is attempting to claim a new ION device using the "Claim Code" method. The device is connected to the internet, but the status in the portal remains stuck at "Claimed" and does not transition to "Online". The installer connects a laptop to the LAN port of the ION and can successfully browse the internet, confirming the uplink is active.
What is the most likely cause of the device failing to reach the "Online" state?

- A. The "Circuit Label" has not been applied to the WAN interface.
- B. The upstream firewall is blocking outbound TCP port 443 or UDP port 123 (NTP).
- C. The device is missing the "Site" assignment in the portal.
- D. The device has not yet downloaded the latest software image.

Answer: B

Explanation:
Comprehensive and Detailed Explanation
The transition from "Claimed" to "Online" depends entirely on the ION device's ability to establish a secure, persistent management tunnel to the Prisma SD-WAN Controller.
Connectivity Requirements: The ION device initiates an outbound connection to the controller on TCP Port 443 (HTTPS). It also requires accurate time synchronization to validate SSL certificates, necessitating access to NTP (UDP Port 123).
Scenario Analysis: Since the installer can browse the internet from the LAN, we know the physical link and basic routing/NAT are functional. The issue is specific to the management plane traffic.

Root Cause: If an upstream firewall (e.g., a corporate edge firewall or ISP filter) is inspecting SSL traffic or blocking specific FQDNs/Ports required by the ION, the device cannot complete the handshake. Consequently, it remains "Claimed" (registered in the database) but cannot go "Online" (active management session). Options A, C, and D prevent provisioning (configuration push) but generally do not prevent the device from initially checking in and going "Online" if the pipe is open.

NEW QUESTION # 48
An engineer at a managed services provider is updating an application that allows its customers to request firewall changes to also manage SD-WAN. The application will be able to make any approved changes directly to devices via API.
What is a requirement for the application to create SD-WAN interfaces?

- A. XML API's "InterfaceProfiles/sdwan" parameter on a firewall device
- B. REST API's "sdwanInterfaceprofiles" parameter on a Panorama device
- C. XML API's "sdwanprofiles/interfaces" parameter on a Panorama device
- D. REST API's "sdwanInterfaces" parameter on a firewall device

Answer: D

Explanation:
Comprehensive and Detailed Explanation at least 150 to 250 words each from Palo Alto Networks SD-WAN Engineer documents:
In Palo Alto Networks PAN-OS SD-WAN environments, automation and orchestration are key components for service providers managing large-scale deployments. The PAN-OS REST API provides a modern, structured way to programmatically manage configuration objects, including those required for SD-WAN functionality.
When an application is designed to push changes directly to devices (individual firewalls) rather than through a centralized template in Panorama, it must interact with the firewall's local REST API. To successfully create a virtual SD-WAN interface, the application must target the correct resource URI. In the PAN-OS API schema, the logical SD-WAN interface-which groups physical links to enable application-based path selection-is managed via the sdwanInterfaces parameter within the REST API.
It is important to distinguish between the interface itself and the profiles that support it. Option A refers to sdwanInterfaceprofiles, which are the objects used to define the characteristics of a link (such as bandwidth, link type, and monitoring frequency), but not the interface itself. Furthermore, since the scenario specifies making changes "directly to devices," the target must be the firewall rather than Panorama. While Panorama can manage these objects via templates, a direct-to-device automation workflow necessitates using the firewall's REST API endpoint. Utilizing the REST API over the legacy XML API is the recommended standard for modern integrations due to its ease of use with JSON payloads and alignment with contemporary DevSecOps practices. By using the sdwanInterfaces parameter on the firewall, the MSP application can programmatically bind physical Layer 3 interfaces to the SD-WAN fabric.

NEW QUESTION # 49
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