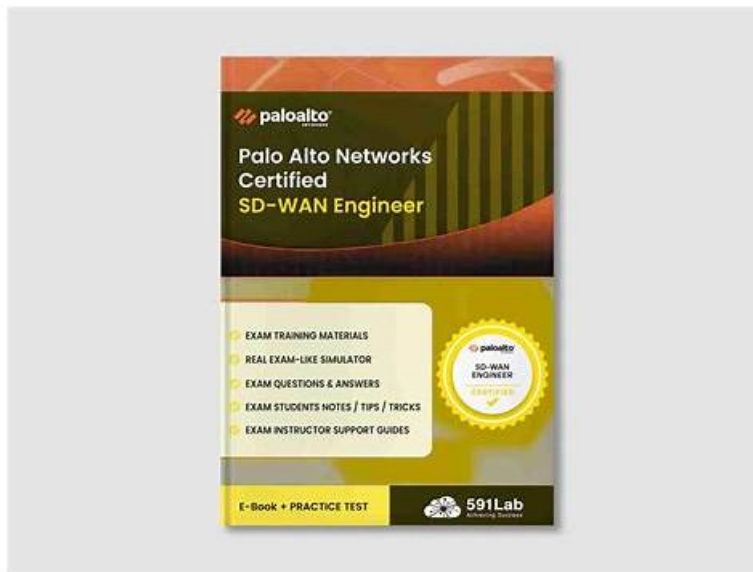# Pass Guaranteed Palo Alto Networks - SD-WAN-Engineer Updated Pass4sure Dumps Pdf

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

Topic	Details
Topic 1	• 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 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	• 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 4	• 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 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 (Q38-Q43):

NEW QUESTION # 38
An administrator needs to ensure that critical VoIP traffic is not dropped even when the branch's primary internet link is fully saturated with bulk file transfers.
Which QoS mechanism does Prisma SD-WAN automatically apply to the "Platinum" priority class to prevent starvation by lower-priority classes?

- A. Hierarchical Token Bucket (HTB) with guaranteed bandwidth
- B. Weighted Round Robin (WRR)
- C. Strict Priority Queuing (SPQ)
- D. First-In, First-Out (FIFO)

Answer: A

Explanation:
Comprehensive and Detailed Explanation
Prisma SD-WAN utilizes a hierarchical QoS model (typically based on Hierarchical Token Bucket or similar shaping algorithms) to manage bandwidth contention.
Guaranteed Bandwidth: The "Platinum" class (used for Real-Time voice/video) is assigned a guaranteed bandwidth percentage (floor) in the QoS profile. This ensures that even if "Gold" (Transactional) or "Silver" (Bulk) traffic is trying to consume 100% of the link, the scheduler reserves the specific portion (e.g., 30%) for Platinum traffic, preventing starvation.
Shaping, not Policing: Unlike simple policing which drops excess traffic hard, the ION device shapes the egress traffic. If the link is congested, the scheduler delays the lower-priority packets (buffering) to allow the high-priority Platinum packets to exit immediately.
Why not Strict Priority (A)? While Platinum behaves like a priority queue, pure Strict Priority can completely starve lower queues if the high-priority traffic is misbehaving or voluminous. Prisma SD-WAN typically uses bandwidth guarantees (floors) and limits (ceilings) to ensure fair sharing while protecting critical apps.

NEW QUESTION # 39
A site has two internet circuits: Circuit A with 500 Mbps capacity and Circuit B with 100 Mbps capacity.
Which path policy configuration will ensure traffic is automatically shifted from a saturated circuit to the circuit with available bandwidth?

- A. Both circuits under active path
- B. Circuit B as an L3 failure path
- C. Circuit A as an active, Circuit B as a backup
- D. Circuit B as an active, Circuit A as a backup

Answer: A

Explanation:
Comprehensive and Detailed Explanation
In Prisma SD-WAN (CloudGenix), Path Policies control how application traffic is steered across WAN links. To ensure that traffic is automatically shifted from a saturated circuit to another circuit with available bandwidth, both circuits must be configured as Active Paths within the policy rule.
When multiple paths are designated as "Active," the ION device treats them as a shared pool of available resources. The system continuously monitors the bandwidth utilization (capacity) and health (latency, jitter, loss) of all active links. If "Circuit A" (500 Mbps) becomes saturated or approaches its defined bandwidth limit, the ION's intelligent scheduler will automatically direct new application flows to "Circuit B" (100 Mbps) because it is a valid, healthy Active path with available capacity. This achieves effective load balancing and bandwidth aggregation.

In contrast, configuring "Circuit B" as a Backup Path (Option A or B) creates a strict priority relationship. Traffic would only move to the Backup path if the Active path completely failed or violated its configured SLA (Path Quality Profile) significantly enough to be considered "down." Mere bandwidth saturation might not trigger an SLA failure immediately, potentially leading to dropped packets on the saturated link while the backup link remains idle. Therefore, placing Both circuits under active path is the correct configuration for dynamic capacity management.

NEW QUESTION # 40

Two branch sites, "Branch-A" and "Branch-B", are both behind active NAT devices (Source NAT) on their local internet circuits. What requirement must be met for these two branches to successfully establish a direct Dynamic VPN (ION-to-ION) tunnel over the internet?

- A. Dynamic VPNs are not supported if both sides are behind NAT.
- B. One of the sites must have a Static Public IP (1:1 NAT) to act as the initiator.
- C. Both sites must disable NAT and use public IPs on the ION interface.
- D. The ION devices automatically use STUN (Session Traversal Utilities for NAT) to discover their public IPs and negotiate the connection.

Answer: D

Explanation:
Comprehensive and Detailed Explanation
Prisma SD-WAN supports Dynamic VPNs (Branch-to-Branch) even when both endpoints are behind Source NAT (e.g., typical broadband connections).
To achieve this, the ION devices utilize standard NAT Traversal techniques, specifically leveraging STUN (Session Traversal Utilities for NAT).
Discovery: Each ION communicates with the Cloud Controller (which acts as a STUN server/signaling broker). Through this communication, the controller observes the public IP and Port that the ION's traffic is coming from (the post-NAT address).
Signaling: The controller shares this public reachability information with the peer ION.
Hole Punching: The IONs then attempt to initiate connections to each other's discovered public IP/Port. This "UDP Hole Punching" allows them to establish a direct IPSec tunnel through the NAT devices without requiring static 1:1 NAT mapping or manual port forwarding on the provider routers, enabling mesh connectivity in commodity internet environments.

NEW QUESTION # 41

When planning a software upgrade for a large fleet of ION devices, what is the recommended best practice regarding the "Software Version" assigned in the Site Summary?

- A. Manually log into each device and upload the new image file via USB.
- B. Use Site Tags to group sites (e.g., "Pilot", "Region-1", "Region-2") and assign the new software version incrementally to these tags to minimize risk.
- C. Assign the new software version to the "Global" site configuration to upgrade all 1000+ sites simultaneously.
- D. The ION devices upgrade themselves automatically whenever a new version is released by Palo Alto Networks.

Answer: B

Explanation:
Comprehensive and Detailed Explanation
The best practice for managing upgrades in a large-scale Prisma SD-WAN environment is the Canary or Phased Rollout approach, utilizing Site Tags.
Risk Mitigation: Upgrading all sites simultaneously (Option B) is highly risky. If the new software version has an unforeseen bug or compatibility issue with a specific circuit type, the entire network could face an outage.
Tag-Based Management: Administrators should create tags such as "Upgrade-Phase-1" (Pilot sites) or "Region-North". By assigning the specific Software Version to the Tag (rather than the individual site or the global default), the controller pushes the update only to that subset of devices.
Procedure:
Apply update to "Pilot" tag (5 sites). Monitor for 24-48 hours.
Apply update to "Region-1" tag (50 sites). Monitor.
Eventually, update the Global default once confidence is high.
Option A is unscalable, and Option D is incorrect as the administrator retains full control over when upgrades occur; they are not forced automatically without policy configuration.

NEW QUESTION # 42

What are two requirements for implementing user/group-based path policies? (Choose two.)

- A. Autonomous Digital Experience Manager (ADEM)
- B. Data center ION
- C. Internal host detection
- D. Cloud Identity Engine

Answer: B,D

Explanation:
Comprehensive and Detailed Explanation
To implement User/Group-based policies (Path, QoS, or Security) in Prisma SD-WAN, the system requires two specific components to resolve user identities and map them to IP addresses within the fabric.
Cloud Identity Engine (CIE): This is the primary requirement for identity management. The Cloud Identity Engine connects the Prisma SD-WAN controller to your directory service (e.g., Active Directory, Azure AD/Entra ID). It allows the system to retrieve and resolve User and Group attributes (e.g., "Marketing Group," "User: john.doe") so they can be selected in policy rules. Without CIE, the controller cannot interpret the group names or user identities defined in the policies.
Data Center ION: In the standard deployment model for User-ID, a Data Center (DC) ION is required to act as the bridge or collector for IP-to-User mappings. The DC ION connects to the User-ID Agent (running on a PAN-OS firewall or Windows Server) to learn the mapping of IP addresses to usernames. It then redistributes this information to the controller or other branch IONs so they can identify which user is associated with the traffic flows originating from a specific private IP address.

NEW QUESTION # 43

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