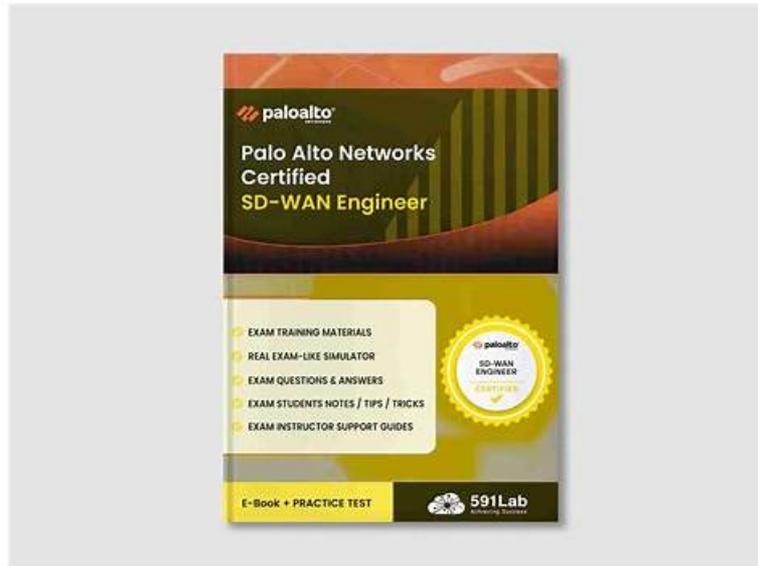


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Palo Alto Networks SD-WAN Engineer Sample Questions (Q24-Q29):

NEW QUESTION # 24

When allocating Aggregate Bandwidth for a Prisma Access "Remote Network" deployment (connecting 50 branch sites), how is the bandwidth license enforced?

- A. The bandwidth license is only checked once during the initial onboarding; there is no ongoing enforcement.
- B. The bandwidth is allocated per device serial number and cannot be shared.
- C. The bandwidth is shared as a pool across all sites in a specific Compute Location (Region); individual sites can burst up to the available pool capacity.
- D. Each branch site is hard-capped at the specific bandwidth limit defined in its individual IPSec tunnel configuration.

Answer: C

Explanation:

Comprehensive and Detailed Explanation

Prisma Access manages Remote Network bandwidth using an Aggregate Bandwidth licensing model.

Compute Locations: When you purchase bandwidth (e.g., 1 Gbps), you allocate it to specific Prisma Access Compute Locations (e.g., US West, Europe Central).

Shared Pool: All branch sites (Remote Networks) that connect to that specific Compute Location share the allocated bandwidth pool. For example, if you allocate 500 Mbps to "US West" and connect 10 branches to it, they compete for that 500 Mbps aggregate.

Bursting: An individual branch is not strictly rate-limited to a "slice" (e.g., 50 Mbps) unless you explicitly configure QoS guarantees. By default, a single branch can burst and consume a large portion of the aggregate pool if other branches are idle. The enforcement happens at the Region/Compute Node level, ensuring the total throughput does not exceed the licensed capacity for that region.

NEW QUESTION # 25

What are two potential causes when a secondary public circuit has been added to the branch site, but the Prisma SD-WAN tunnel is not forming to the data center? (Choose two.)

- A. DNS is not configured.
- B. Circuit label is missing from interface type.
- C. Interface scope is set to "local."
- D. Interface role is not selected as "internet."

Answer: C,D

Explanation:

Comprehensive and Detailed Explanation

In Prisma SD-WAN (formerly CloudGenix), the establishment of Secure Fabric (VPN) tunnels is automated but relies heavily on the correct definition of the Network Context for each interface. If a tunnel fails to form on a newly added secondary circuit, it is typically due to a misconfiguration in how the interface is defined in the ION portal.

1. Interface Scope (Statement D):

The Scope setting on an interface determines its function in the network topology.

Global Scope: This defines the interface as a WAN-facing port. The ION device will only attempt to build VPN tunnels (overlay) on interfaces configured with Global scope.

Local Scope: This defines the interface as a LAN-facing port (for users, switches, or APs). If the administrator mistakenly sets the scope to "Local" for the new internet line, the ION treats it as a private LAN segment and will not initiate any tunnel negotiation or WAN signaling on that port.

2. Interface Role/Circuit Category (Statement A):

Prisma SD-WAN uses Circuit Categories (often referred to as Interface Roles in general networking terms, or specifically "Circuit Category" in the ION UI) to determine peering logic.

To form a tunnel over a public internet link to a Data Center, the circuit attached to the interface must be categorized as "Internet".

The controller uses this category to match compatible endpoints. It knows that a "Private WAN" (MPLS) link cannot directly tunnel to an "Internet" link without a gateway. If the new circuit is not correctly selected/categorized as "Internet" (e.g., left undefined or set to a different category), the system will not attempt to build the standard IPsec overlay to the Data Center's public IP address.

NEW QUESTION # 26

An administrator has configured a Path Policy for "ERP_Traffic". The policy allows two public internet links, "ISP-A" and "ISP-B", both marked as "Active". The Path Quality Profile (SLA) requires a latency of less than 150ms. Currently, both ISP-A and ISP-B have a latency of 40ms, well within the SLA.

How does the Prisma SD-WAN ION determine which link to use for a new flow of "ERP_Traffic" when both active paths meet the SLA requirements?

- A. It selects the path that appears first in the interface configuration list.
- B. It selects the path with the highest available bandwidth capacity.
- C. It duplicates the packets across both paths (Packet Duplication) to ensure delivery.
- D. It selects the path with the lowest numerical latency (e.g., if ISP-A drops to 39ms).

Answer: B

Explanation:

Comprehensive and Detailed Explanation

Prisma SD-WAN utilizes a sophisticated decision engine for Application-Based Path Selection that goes beyond simple failover.

When configuring a Path Policy, the administrator defines "Active" paths and a "Path Quality Profile" (SLA).

SLA Compliance (The Filter): First, the system filters the available paths based on the Path Quality Profile. In this scenario, both ISP-A and ISP-B have 40ms latency against a 150ms threshold. Both are "green" or compliant paths.

Selection Criteria (The Tie-Breaker): When multiple paths are configured as "Active" and all meet the performance SLA, the ION device aims to optimize the overall user experience and network utilization. The default behavior for load balancing across healthy, compliant active paths is to select the path with the highest available bandwidth capacity.

By steering new flows to the link with the most "headroom" (available Mbps), the system prevents the saturation of a smaller link (e.g., a 20Mbps DSL line) while a larger link (e.g., 1Gbps Fiber) sits underutilized. This maximizes the aggregate throughput for the site. While latency is the qualifier, bandwidth availability is often the selector for compliant paths. Note that if the application was defined as "Real-Time" and configured for packet duplication, behavior would differ, but for standard traffic, capacity-based distribution is the standard active/active logic.

NEW QUESTION # 27

When defining a Path Quality Profile (SLA) for a "Transactional" application group (e.g., Citrix, Oracle), the administrator sets the "Packet Loss" threshold to 1%.

What happens to the traffic for this application if all active paths currently exceed this 1% loss threshold?

- A. The traffic is queued indefinitely until a path recovers.
- B. The traffic is dropped to prevent data corruption.
- C. The system automatically enables a Backup path, even if the Active paths are technically "Up" but degraded.
- **D. The system selects the best available path (lowest loss) among the active paths, even if it violates the profile.**

Answer: D

Explanation:

Comprehensive and Detailed Explanation

This behavior describes the "Best Available Path" logic inherent in Prisma SD-WAN's availability design.

SLA Thresholds: Path Quality Profiles act as filters to identify compliant paths.

Total Violation: If all configured "Active" paths violate the SLA (e.g., Path A has 2% loss, Path B has 5% loss, and the threshold is 1%), the system does not drop the traffic (Option A) because maintaining connectivity is prioritized over perfect quality.

Selection Logic: The system enters a fallback state where it compares the available active paths and selects the "Least Bad" one—the path that is closest to meeting the SLA (in this case, Path A with 2% loss).

Backup Paths: Traffic would only move to a Backup path (Option D) if the policy explicitly configures the backup path to engage upon SLA violation of the active set. However, strictly speaking, if only active paths are considered and all fail, it picks the best of the active group rather than blackholing the traffic.

NEW QUESTION # 28

In the Prisma SD-WAN portal, the Application Health dashboard assigns a color-coded "Health Score" (Green, Yellow, Red) to applications.

Which three metrics are combined to calculate this composite AppX (Application Experience) score? (Choose three.)

- **A. Network Transfer Time (NTT)**
- B. Jitter
- **C. Transaction Failure Rate**
- D. Bandwidth Utilization
- **E. Server Response Time (SRT)**

Answer: A,C,E

Explanation:

Comprehensive and Detailed Explanation

The AppX (Application Experience) score is a proprietary metric used by Prisma SD-WAN to provide a holistic view of user experience, rather than just network statistics. It is calculated based on three key components:

Transaction Failure Rate (A): The percentage of application transactions that failed (e.g., TCP resets, HTTP 500 errors). This indicates availability.

Network Transfer Time (B): The time taken for packets to traverse the network (WAN/LAN latency). This indicates network

health.

Server Response Time (C): The time taken by the application server to respond to a request. This indicates backend performance. Why not D or E?

Bandwidth Utilization (D) is a capacity metric, not a direct measure of quality. A link can be 90% full but still deliver packets quickly (good AppX), or 10% full but dropping packets (bad AppX).

Jitter (E) is a network-layer metric primarily relevant for UDP Real-Time media. While important, the high-level "AppX" score for general TCP apps focuses on the "Time-to-Glass" metrics (NTT/SRT) and success rates.

NEW QUESTION # 29

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