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Palo Alto Networks SD-WAN Engineer Sample Questions (Q22-Q27):

NEW QUESTION # 22

In the Prisma SD-WAN portal, an administrator is viewing the "Media" analytics for a branch site to troubleshoot complaints about poor voice quality.

When calculating the Mean Opinion Score (MOS) for voice traffic, which two metrics does the system prioritize active monitoring

for, even when no user voice traffic is present on the link? (Choose two.)

- A. Jitter
- B. Throughput
- C. Packet Loss
- D. Latency (One-Way)

Answer: A,C

Explanation:

Comprehensive and Detailed Explanation

Prisma SD-WAN calculates the Mean Opinion Score (MOS) to provide a standardized metric (1-5) for voice quality. To ensure the system always knows the "voice readiness" of a path—even before a call starts—it uses Active Probes (synthetic UDP packets). While latency is measured, the MOS calculation algorithm is most heavily penalized by Packet Loss (D) and Jitter (B).

Packet Loss: Even a small amount of loss (e.g., >1%) dramatically reduces voice clarity, causing dropouts.

Jitter: High variance in packet arrival time (jitter) causes the "robotic" voice effect and buffer underruns.

The system continuously measures these specific metrics on all WAN links using synthetic probes. If the packet loss or jitter exceeds the threshold defined in the "Path Quality Profile" (e.g., Voice Profile), the path is marked as non-compliant, and the MOS score drops, triggering a policy action to move the flow. Throughput (C) is less critical for voice as calls consume very little bandwidth (e.g., 64-100 Kbps), making congestion (loss/jitter) the primary enemy, not raw speed.

NEW QUESTION # 23

Which specialized hardware feature is available on the ION 9000 series but NOT on the ION 3000 series, making it suitable for high-throughput Data Center deployments?

- A. 10 Gigabit Ethernet (SFP+) ports
- B. Fail-to-Wire Bypass Pairs
- C. Support for LTE/5G SIM cards
- D. PoE+ (Power over Ethernet) output ports

Answer: A

Explanation:

Comprehensive and Detailed Explanation

The ION 9000 is the flagship high-performance hardware model designed for large Data Centers and Campus Cores.

10GbE Connectivity (C): The defining hardware differentiator for the ION 9000 is its inclusion of multiple 10 Gigabit Ethernet (SFP+) interfaces. This allows it to interconnect with Data Center core switches at 10Gbps speeds, supporting the multi-gigabit aggregate throughput required for hub sites aggregating traffic from hundreds of branches.

ION 3000: The ION 3000 is a branch-tier device limited to 1 Gigabit Ethernet (copper/SFP) interfaces.

Bypass Pairs (B): Both models (and others like ION 2000/7000) support Bypass Pairs.

LTE/PoE (A/D): These are typically features of smaller branch/edge models (like ION 1200), not the high-end DC concentrators.

NEW QUESTION # 24

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

Answer: C

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 # 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

For how many hours are Prisma SD-WAN VPN shared secrets valid?

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

Answer: A

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 # 27

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