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Palo Alto Networks SD-WAN Engineer Sample Questions (Q20-Q25):

NEW QUESTION # 20

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

Answer: B,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 # 21

Which component of Prisma SD-WAN is responsible for distributing User-IP and user-group mappings to branch devices that match the corresponding source IPs?

- A. DC ION
- **B. Controller**
- C. Cloud Identity Engine
- D. NGFW

Answer: B

Explanation:

In the Prisma SD-WAN architecture, the Controller serves as the centralized management and control plane for the entire fabric. While the Cloud Identity Engine (CIE) is the component responsible for collecting and consolidating user-to-IP mappings from various identity providers (such as Active Directory, Okta, or Azure AD), it does not directly manage the distribution of this operational data to the individual ION devices at the branch level.

Instead, the Prisma SD-WAN Controller integrates with the Cloud Identity Engine to ingest these identity mappings. Once the Controller has synchronized the User-IP and user-group information, it acts as the primary orchestrator. It is responsible for distributing these mappings down to the ION devices across all sites. This distribution ensures that when an ION device sees traffic from a specific source IP, it can accurately associate that traffic with a specific user or group based on the metadata provided by the Controller.

By centralizing this distribution through the Controller, Prisma SD-WAN ensures consistency across the network. Branch ION devices can then apply Application-Based Path Selection and security policies based on user identity rather than just IP addresses. This architectural design offloads the processing requirements of maintaining direct connections to identity providers from the branch hardware, allowing the Controller to handle the heavy lifting of orchestration and global synchronization of identity data.

NEW QUESTION # 22

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

Answer: B

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 # 23

A multinational company is deploying Prisma SD-WAN across North America, Europe, and Asia. The data centers in the North America region have served all regions, but regional policies are now being enforced that mandate each of the regions to build their own data centers and branch sites to only connect to their respective regional data centers.

How can this regionalization be achieved so that new or existing branch sites only build tunnels to the regional DC IONs?

- A. Create a new cluster for each regional DC ION and move the sites from the existing cluster to the new cluster.
- B. Assign WAN interfaces to distinct Virtual Routing and Forwarding (VRF) instances for each region on the DC IONs, ensuring that branches only connect to the WAN interfaces/VRFs designated for their region.
- C. Disable the auto-tunnel feature globally on the Prisma SD-WAN portal and manually create all necessary tunnels exclusively between IONs within their designated regions.
- D. Remove the circuit labels and apply new circuit labels for in-region circuits only.

Answer: A

Explanation:

Comprehensive and Detailed Explanation

To achieve strict regional isolation where branch sites only form VPN tunnels with Data Centers in their specific region (e.g., EU branches to EU DCs only), the correct architectural feature to utilize is VPN Clusters.

In Prisma SD-WAN (CloudGenix), a Cluster defines a logical security and topology boundary for the overlay network. By default, devices may be placed in a "Default" cluster where they attempt to form a mesh or hub-and-spoke topology with all other reachable devices in that context.

To enforce the new policy:

Logical Partitioning: The administrator should create separate VPN Clusters for each region (e.g., "Cluster-NA", "Cluster-EU", "Cluster-Asia").

Assignment: The Regional Data Center IONs and their corresponding Branch IONs must be moved into their respective clusters.

Result: The Prisma SD-WAN controller dictates that devices can only establish Secure Fabric (VPN) tunnels with other devices within the same cluster. This effectively segments the global network, ensuring that an Asian branch never attempts to build a tunnel to a North American DC, satisfying the compliance requirement without complex access lists or manual tunnel configuration.

Option B (Manual Tunnels) is administratively unscalable and negates the benefits of SD-WAN automation.

Option C (Circuit Labels) is primarily for path selection and traffic steering, not for hard topology segmentation.

Option D (VRFs) is used for local Layer 3 segmentation (routing isolation) within a device, not for controlling WAN overlay tunnel formation scope.

NEW QUESTION # 24

During the Zero Touch Provisioning (ZTP) process of a new ION device at a branch site, which interface ports are supported by default to request an IP address via DHCP and reach the Prisma SD-WAN controller for claiming?

- A. Only the USB port via a cellular modem
- B. Any LAN or WAN port on the device
- C. The dedicated Controller port, or Port 1 / Internet 1 if a dedicated port is absent
- D. Only the dedicated Controller port (if available)

Answer: C

Explanation:

Comprehensive and Detailed Explanation

For a successful Zero Touch Provisioning (ZTP) experience, the ION device must be able to obtain an IP address and reach the internet immediately upon boot-up.

According to Palo Alto Networks hardware guides, the Controller Port (often labeled specifically as "CONTROLLER" on models like the ION 3000/7000/9000) is pre-configured to act as a DHCP client by default. It is the preferred interface for the initial "call home" process.

However, for smaller desktop models (like the ION 1000/2000/1200 series) or scenarios where a dedicated management network is not available, the device firmware is also configured to attempt DHCP client requests on Port 1 (often labeled as Internet 1 or simply 1).

Connecting the ISP circuit to any random port (like Port 4 or a LAN port) will not work for ZTP because those interfaces are not pre-configured as DHCP clients in the factory default state. Therefore, the installer must ensure the internet uplink is connected to either the dedicated Controller port or Port 1/Internet 1 to ensure the device can resolve the controller FQDN and download its configuration.

NEW QUESTION # 25

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