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## **Palo Alto Networks SD-WAN Engineer Sample Questions (Q58-Q63):**

### **NEW QUESTION # 58**

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

**Answer: D**

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 # 59**

When identifying devices for IoT classification purposes, which two methods does Prisma SD-WAN use to discover devices that are not directly connected to the branch ION? (Choose two.)

- A. **Syslog**
- B. **SNMP**
- C. CDP
- D. LLDP

**Answer: A,B**

Explanation:

Comprehensive and Detailed Explanation

Prisma SD-WAN (formerly CloudGenix) integrates with Palo Alto Networks IoT Security to provide comprehensive visibility into all devices at a branch, including those that are not directly connected to the ION device. While the ION automatically detects and classifies devices connected directly to its interfaces via traffic inspection (DPI), DHCP, and ARP analysis, gaining visibility into off-branch devices (devices connected to downstream switches or access points) requires additional discovery mechanisms that can query the network infrastructure or ingest its logs.

1. **SNMP (Simple Network Management Protocol):** This is the primary active discovery method for off-branch devices. The Prisma SD-WAN ION device acts as a sensor that actively polls local network switches and wireless controllers using SNMP. By querying the ARP tables and MAC address tables (Bridge MIBs) of these intermediate network devices, the ION can identify endpoints that are connected to the switch ports, even if those endpoints are not currently sending traffic through the ION. This allows the system to map the topology and discover silent or lateral-traffic-only devices.

2. **Syslog:** In conjunction with SNMP, the IoT Security solution can utilize Syslog messages to discover and profile devices. Network infrastructure devices (like switches and WLAN controllers) can be configured to send Syslog messages to the collection point (which enables the IoT Security service) whenever a device connects or disconnects (e.g., port up/down events, DHCP snooping logs, or 802.1x authentication logs). These logs provide real-time data about device presence and identity (MAC/IP mappings) for devices that are not directly adjacent to the ION, ensuring 100% visibility across the branch network segments.

LLDP (A) and CDP (B) are typically Link Layer discovery protocols used for discovering directly connected neighbors and do not propagate beyond the immediate link, making them unsuitable for discovering devices multiple hops away or behind a switch.

#### **NEW QUESTION # 60**

A network operator receives a critical SITE\_CONNECTIVITY\_DOWN alarm for a branch site in the Prisma SD-WAN portal. What specific condition triggers this alarm type?

- A. The device has lost power and rebooted.
- B. **All Secure Fabric Links (VPNs) to all remote peers are down, isolating the site from the overlay.**

- C. The site has exceeded its licensed bandwidth capacity.
- D. One of the two internet circuits at the site has gone down.

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation

The SITE\_CONNECTIVITY\_DOWN alarm is a high-severity alert indicating a total loss of overlay connectivity for a site. It does not trigger if just one circuit fails (Option B), provided that other circuits are still up and maintaining VPNs. A single link failure would typically trigger a "Link Down" or "VPN Down" alarm, but the Site connectivity would remain "Up" (degraded). It does not simply mean the device rebooted (Option A), although a reboot would cause it temporarily; the alarm specifically tracks the state of the VPN fabric.

The SITE\_CONNECTIVITY\_DOWN alarm specifically generates when all Secure Fabric Links (VPN tunnels) on the device are in the "Down" state. This means the branch is completely isolated from the rest of the SD-WAN network (Data Centers and other branches), even if the device itself might still be powered on and reachable via the controller (management plane). It signifies a "Blackout" of the data plane for that location.

**NEW QUESTION # 61**

An ION 3000 device at a remote branch has suffered a critical hardware failure and must be replaced via the RMA process. The administrator has received the replacement unit.

What is the correct procedure to transfer the configuration and license from the defective unit to the replacement unit to ensure minimal downtime and retention of historical data?

- A. Delete the old device from the portal, create a new site for the replacement device, and rebuild the policies manually.
- B. Manually configure the new device from scratch, then open a support ticket to transfer the license.
- C. Use the "Replace Device" workflow in the Prisma SD-WAN portal, which automatically transfers the configuration (Device Shell) and re-associates the site to the new serial number.
- D. Backup the configuration of the old device to a USB drive and restore it to the new device using the local console.

**Answer: C**

Explanation:

Comprehensive and Detailed Explanation

The RMA replacement process in Prisma SD-WAN is designed to be seamless, leveraging the decoupling of logical configuration from physical hardware.

Replace Device Workflow: The administrator should use the "Replace Device" (or RMA) function within the portal. This workflow allows you to select the "Defective" device (old serial) and the "Replacement" device (new serial).

Configuration Transfer: Once executed, the system automatically binds the existing Device Shell (which contains all interface configs, routing policies, and site associations) to the new hardware's serial number. The new device, once connected to the internet, will "call home," identify itself, and download the exact configuration of the previous unit.

License Transfer: While the configuration moves automatically, the Support License transfer typically requires a specific step in the Customer Support Portal (CSP) or happens automatically if processed as a formal RMA order. Options A and D are incorrect because they involve manual reconfiguration, which is unnecessary and error-prone. Option C is incorrect as the ION platform relies on cloud-based config management, not local USB backups for hardware swaps.

**NEW QUESTION # 62**

A remote branch site is reporting intermittent connectivity to the Data Center. The administrator checks the System > Alarms page and sees a "VPN\_DOWN" alarm for the tunnel to the DC. However, the internet circuit status is "Up".

Which specific log file or diagnostic tool in the Prisma SD-WAN portal would provide the IKE (Internet Key Exchange) error codes (e.g., "NO\_PROPOSAL\_CHOSEN" or "AUTH\_FAILED") to pinpoint the cause of the tunnel failure?

- A. Site Summary > Topology
- B. Event Logs > System
- C. Link Quality Graphs
- D. Flow Browser

**Answer: B**

Explanation:

## Comprehensive and Detailed Explanation

To diagnose specific VPN negotiation failures (Phase 1 or Phase 2 IPSec issues), the Event Logs (specifically filtered for System or VPN events) are the correct resource.

Event Logs: This section records the control plane signaling messages. If a VPN tunnel fails to establish, the Event Log will generate an entry containing the specific IKE failure reason sent by the peer or generated locally. Common errors found here include INVALID\_COOKIE, NO\_PROPOSAL\_CHOSEN (mismatch in encryption algorithms), or PRE\_SHARED\_KEY\_MISMATCH.

Flow Browser (A): This shows user traffic (TCP/UDP sessions). If the VPN is down, user traffic won't even enter the tunnel, so the Flow Browser will just show dropped flows or blackholes, but it won't explain why the tunnel itself is broken.

Link Quality (D): This shows latency/loss graphs for established tunnels. It cannot diagnose why a tunnel failed to form in the first place.

## NEW QUESTION # 63

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