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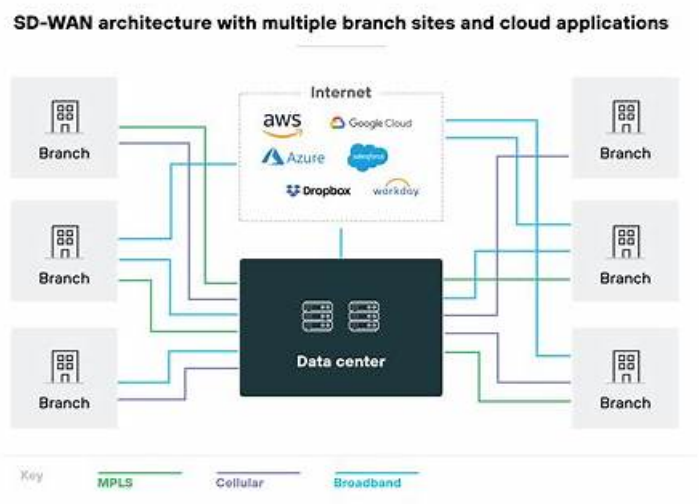

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Palo Alto Networks SD-WAN Engineer Sample Questions (Q17-Q22):

NEW QUESTION # 17
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. Only the dedicated Controller port (if available)
- C. The dedicated Controller port, or Port 1 / Internet 1 if a dedicated port is absent
- D. Any LAN or WAN port on the device

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 # 18
A network engineer is troubleshooting an ION device that is showing as "Offline" in the Prisma SD-WAN portal, despite the site reporting that local internet access is working. The engineer has console access to the device.
Which CLI command should be used to specifically validate the device's ability to resolve the controller's hostname and establish a secure connection to it over a specific interface?

- A. show system connectivity
- B. dump vpn summary
- C. ping <controller-ip>
- D. debug controller reachability <interface>

Answer: D

Explanation:
Comprehensive and Detailed Explanation
The CLI command debug controller reachability <interface> (e.g., debug controller reachability 1) is the specific diagnostic tool designed to verify the entire connectivity chain required for management plane availability.
Unlike a simple ICMP ping (Option A), which only tests Layer 3 connectivity to an IP address, the debug controller reachability command performs a sequential set of tests:
DNS Resolution: It attempts to resolve the specific Locator service URL (locator.cgnx.net or region-specific FQDN) to verify DNS functionality.
TCP Connectivity: It tests the ability to establish a TCP connection to the controller on port 443 (HTTPS).
SSL/TLS Handshake: It validates that the device can successfully negotiate the secure tunnel required for authentication.
If this command fails at the DNS step, the issue is likely a missing DNS server in the interface config. If it fails at the TCP step, it implies an upstream firewall is blocking outbound port 443. This targeted output allows the engineer to pinpoint exactly why the device is offline in the portal.

NEW QUESTION # 19
When configuring a Path Policy rule for a "Real-Time Video" application, the administrator wants to ensure the traffic uses the path with the lowest packet loss.
How does the Prisma SD-WAN ION determine the "Packet Loss" metric for a given path when there is no active user traffic flowing on that link?

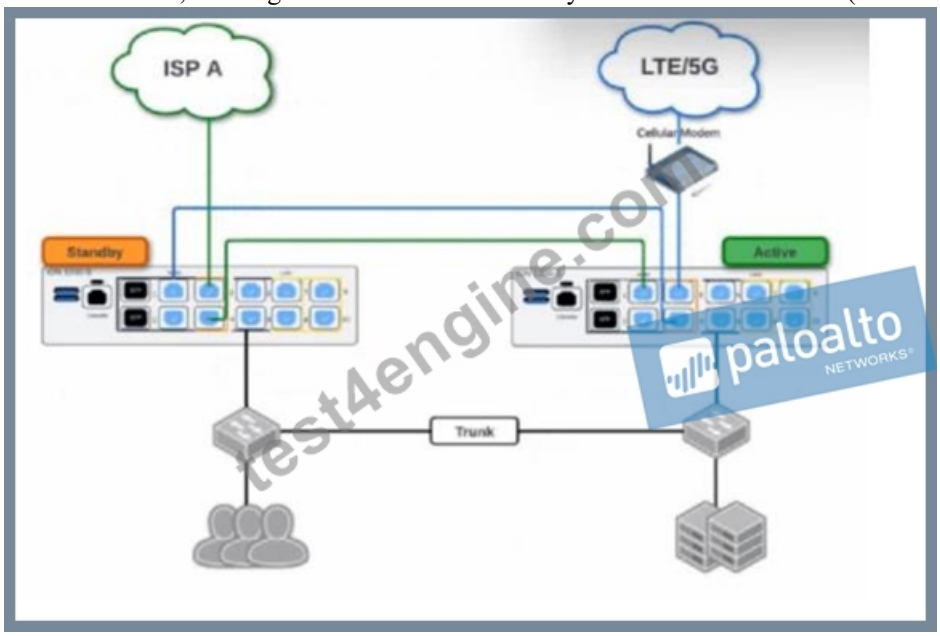
- A. It queries the ISP's router via SNMP to retrieve interface error counters.
- B. It defaults to a static value of 0% loss until user traffic begins.
- C. It relies solely on Passive Monitoring of TCP retransmissions from other user traffic on that link.
- D. It sends Active Probes (synthetic UDP packets) across the Secure Fabric to measure path quality continuously.

Answer: D

Explanation:
Comprehensive and Detailed Explanation
Prisma SD-WAN utilizes Link Quality Monitoring (LQM) to maintain a real-time health score for every WAN path.
To ensure the system knows the quality of a path before sending critical user traffic onto it, the ION device uses Active Probing.

Mechanism: The ION sends synthetic probe packets (typically UDP) across the Secure Fabric (VPN tunnels) and Direct Internet paths to its peers. These probes measure Latency, Jitter, and Packet Loss.
Active vs. Passive: While the system does use Passive Monitoring (observing actual user flows) when traffic is present to reduce overhead, Active Probes are essential for idle links or backup paths. Without active probing, the ION would have no data to make an intelligent steering decision for the first packet of a new video call. This ensures that "Real-Time" policies always have up-to-date metrics to select the best path immediately.

NEW QUESTION # 20
Based on the HA topology image below, which two statements describe the end-state when power is removed from the ION 1200-S labeled "Active", assuming that the ION labeled "Standby" becomes the active ION? (Choose two.)



- A. Both the connection to ISP A and the connection to LTE/5G will be usable.
- B. The connection to ISP A will be usable, but the connection to LTE/5G will not.
- C. The newly active ION will send a gratuitous ARP to the LAN for the IP address of any SVIs.
- D. The VRRP Virtual IP address assigned to any SVIs will be moved to the newly active ION.

Answer: A,C

Explanation:
Comprehensive and Detailed Explanation
This scenario depicts a High Availability (HA) topology utilizing the ION 1200-S model's Fail-to-Wire (bypass) capabilities to share WAN links between two devices without needing external switches for every WAN connection.
1. WAN Link Availability (Statement A):
The diagram illustrates a "daisy-chain" cabling method supported by the ION 1200-S bypass pairs.
ISP A (Green): Connects directly to the "Standby" (Left) unit first. Since the Standby unit remains powered on, it maintains direct access to ISP A.
LTE/5G (Blue): Connects to the "Active" (Right) unit first. The connection then loops through a bypass pair on the Active unit to the Standby unit. When power is removed from the "Active" unit, the fail-to-wire relays on its Ethernet ports close physically. This creates a passive electrical bridge that connects the LTE modem directly to the Standby unit. The Standby unit (now becoming Active) will detect the link state change and successfully utilize the LTE connection. Therefore, both WAN links remain usable.
2. LAN Failover Mechanism (Statement C):
Prisma SD-WAN ION devices typically use a VRRP-like mechanism for LAN redundancy.
When the "Active" node fails (loses power), the "Standby" node stops receiving keepalives and promotes itself to the Active state.
To ensure downstream switches and clients immediately send traffic to the new Active unit, it must update their ARP tables. It does this by broadcasting a Gratuitous ARP (GARP) packet for the Virtual IP (VIP) address of the Switch Virtual Interfaces (SVIs). This action informs the network that the MAC address associated with the Gateway I1P is now reachable via the port connected to the new Active ION.234

NEW QUESTION # 21

A multinational company is deploying Prisma SD-WAN across North America, Europe, and Asi a. 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. 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.
- 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. Create a new cluster for each regional DC ION and move the sites from the existing cluster to the new cluster.
- D. Remove the circuit labels and apply new circuit labels for in-region circuits only.

Answer: C

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 # 22
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