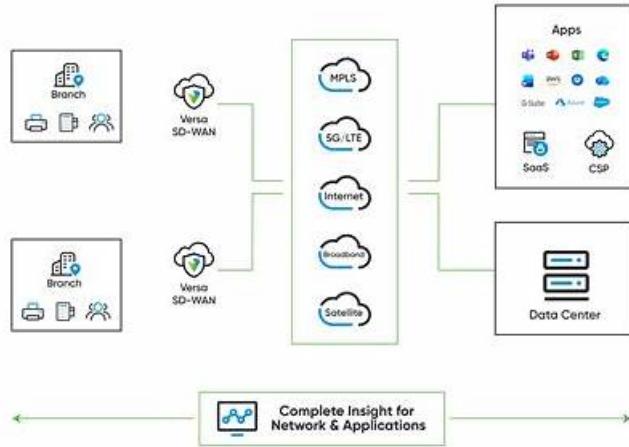


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## Palo Alto Networks SD-WAN-Engineer Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Deployment and Configuration: This domain focuses on Prisma SD-WAN deployment procedures, site-specific settings, configuration templates for different locations, routing protocol tuning, and VRF implementation for network segmentation.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Operations and Monitoring: This domain addresses monitoring device statistics, controller events, alerts, WAN Clarity reports, real-time network visibility tools, and SASE-related event management.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>Troubleshooting: This domain focuses on resolving connectivity, routing, forwarding, application performance, and policy issues using co-pilot data analysis and analytics for network optimization and reporting.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Planning and Design: This domain covers SD-WAN planning fundamentals including device selection, bandwidth and licensing planning, network assessment, data center and branch configurations, security requirements, high availability, and policy design for path, security, QoS, performance, and NAT.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>Unified SASE: This domain covers Prisma SD-WAN integration with Prisma Access, ADEM configuration, IoT connectivity via Device-ID, Cloud Identity Engine integration, and User</li> <li>Group-based policy implementation.</li> </ul>

## Palo Alto Networks SD-WAN Engineer Sample Questions (Q56-Q61):

### NEW QUESTION # 56

A network administrator notices that a branch ION device is experiencing high CPU utilization due to a suspected TCP SYN Flood attack originating from a compromised host on the local LAN.

Which specific security feature should be configured and applied to the "LAN" zone to mitigate this Denial of Service (DoS) attack?

- A. Zone Protection Profile**
- B. Application Quality Profile (AQP)
- C. Access Control List (ACL) on the WAN interface
- D. Zone-Based Firewall (ZBFW) Rule with a "Deny" action

### Answer: A

Explanation:

Comprehensive and Detailed Explanation

To defend against volumetric attacks such as TCP SYN Floods, UDP Floods, or ICMP Floods, Prisma SD-WAN (like PAN-OS) utilizes Zone Protection Profiles.

Function: A Zone Protection Profile is a specific security object designed to screen traffic for protocol anomalies and flood behaviors before it is processed by the complex firewall policy engine. It sets thresholds (e.g., "Max 1000 SYNs/sec"). If the traffic rate exceeds this threshold, the system triggers an action (Alarm, Drop, or SYN Cookies) to protect the device's resources.

Application: Unlike a standard ZBFW Rule (A) which filters based on Source/Destination/App-ID (which might still allow the initial handshake packets that cause the flood), a Zone Protection Profile is applied to the Zone object itself (in this case, the LAN Zone). This ensures that the flood is mitigated at the ingress stage, preventing the ION's session table and CPU from being exhausted by the attack.

### NEW QUESTION # 57

In which modes can a Prisma SD-WAN branch be deployed?

- A. Production, Control, Disabled
- B. Testing, Control, POV
- C. Disabled, Analytics, Control**
- D. POV, Production, Analytics

### Answer: C

Explanation:

Comprehensive and Detailed Explanation

Prisma SD-WAN (formerly CloudGenix) defines three distinct Operational Modes for a branch site, which determine how the ION device processes traffic and interacts with the network.

Analytics Mode (Monitor): In this mode, the ION device is typically deployed inline or in a "promiscuous" monitor state to gain visibility into network traffic without actively enforcing path selection policies.<sup>1</sup> It "learns" applications, bandwidth usage, and network characteristics (auditing) but does not steer traffic or block flows.<sup>2</sup> This is often used during Proof of Concepts (POVs) or the initial "burn-in" phase of a deployment to generate reports without risking network disruption.

Control Mode: This is the full production state. In Control Mode, the ION device actively enforces Path Policies, QoS Policies, and Security Policies. It builds Secure Fabric VPN tunnels, steers traffic based on application SLAs (e.g., sending voice over MPLS and

bulk data over Broadband), and handles failover events.<sup>3</sup> This is the required mode for a fully functional SD-WAN site. Disabled Mode: This mode effectively shuts down the site's SD-WAN functionality from the controller's perspective. It is an administrative state used when a site is being decommissioned, provisioned but not yet live, or isolated for troubleshooting. In this state, the device does not participate in the fabric.

### NEW QUESTION # 58

When planning a software upgrade for a large fleet of ION devices, what is the recommended best practice regarding the "Software Version" assigned in the Site Summary?

- A. Use Site Tags to group sites (e.g., "Pilot", "Region-1", "Region-2") and assign the new software version incrementally to these tags to minimize risk.
- B. Manually log into each device and upload the new image file via USB.
- C. The ION devices upgrade themselves automatically whenever a new version is released by Palo Alto Networks.
- D. Assign the new software version to the "Global" site configuration to upgrade all 1000+ sites simultaneously.

#### Answer: A

Explanation:

Comprehensive and Detailed Explanation

The best practice for managing upgrades in a large-scale Prisma SD-WAN environment is the Canary or Phased Rollout approach, utilizing Site Tags.

Risk Mitigation: Upgrading all sites simultaneously (Option B) is highly risky. If the new software version has an unforeseen bug or compatibility issue with a specific circuit type, the entire network could face an outage.

Tag-Based Management: Administrators should create tags such as "Upgrade-Phase-1" (Pilot sites) or "Region-North". By assigning the specific Software Version to the Tag (rather than the individual site or the global default), the controller pushes the update only to that subset of devices.

Procedure:

Apply update to "Pilot" tag (5 sites). Monitor for 24-48 hours.

Apply update to "Region-1" tag (50 sites). Monitor.

Eventually, update the Global default once confidence is high.

Option A is unscalable, and Option D is incorrect as the administrator retains full control over when upgrades occur; they are not forced automatically without policy configuration.

### NEW QUESTION # 59

In a Data Center deployment, what is the key functional difference between configuring a BGP neighbor as a "Core Peer" versus an "Edge Peer"?

- A. A Core Peer is used for LAN-side routing to learn DC prefixes, while an Edge Peer is used for WAN-side routing to the Service Provider.
- B. A Core Peer is used for connecting to the internet, while an Edge Peer connects to the MPLS provider.
- C. A Core Peer automatically redistributes learned routes into the SD-WAN fabric, whereas an Edge Peer does not.
- D. A Core Peer supports eBGP only, while an Edge Peer supports iBGP only.

#### Answer: A

Explanation:

Comprehensive and Detailed Explanation

In the Prisma SD-WAN Data Center (DC) model, the terminology for BGP peers defines their role in the topology and how the system generates route maps.

Core Peer: This peer type is designated for the LAN-side connection (facing the DC Core Switch or internal Routers). Its primary purpose is to learn the subnets/prefixes hosted in the data center so the ION can advertise them to the remote branches. The system automatically creates route maps to facilitate this redistribution into the fabric.

Edge Peer: This peer type is designated for the WAN-side connection (facing the Edge Router or MPLS PE). Its primary purpose is to provide reachability to the underlay network.

Distinction: Selecting the correct type affects the default Route Maps and Prefix Lists generated by the controller. Configuring a Core Peer correctly ensures that the DC's internal subnets are properly learned and propagated to the overlay, whereas an Edge Peer configuration focuses on WAN next-hop reachability.

## NEW QUESTION # 60

BGP core peers on data center IONs are learning only a default route from the core router. Which action will protect the SD-WAN network from getting isolated in the event of BGP misconfiguration on the core routers?

- A. Add a static default route with higher admin distance pointing to the core peer IPs.
- B. Enable BGP Bidirectional Forwarding Detection (BFD) on the core peer sessions to rapidly detect BGP neighbor failures.
- C. Implement BGP route filtering using prefix lists and route maps on the ION devices to only accept specific, known prefixes from the core.<sup>1</sup>
- D. Configure BGP max-prefix limits on the ION devices to prevent them from accepting too many routes from the core routers.

### Answer: A

Explanation:

In a Data Center (DC) deployment, the ION device typically peers with a core router via Border Gateway Protocol (BGP) to exchange reachability information between the SD-WAN fabric and the legacy corporate network.<sup>2</sup> When the ION is configured to learn only a default route (\$0.0.0.0/0\$) from the core, the entire SD-WAN fabric relies on this single BGP-learned route to reach internal resources not directly connected to the ION.

The primary risk in this design is network isolation caused by a BGP misconfiguration or a "soft failure" on the core router. If the BGP session stays "Up" but the core router stops advertising the default route due to a configuration error, the ION device will remove the route from its routing table. Without a valid path to the core, the branch sites connected to the DC ION will lose connectivity to all data center resources.

To mitigate this, the recommended best practice is to add a static default route with a higher Administrative Distance (AD) pointing to the core peer IPs.<sup>3</sup> This acts as a "floating static route." Under normal operations, the BGP-learned default route (typically with an AD of 20 for eBGP) remains active in the routing table. If the BGP advertisement fails, the static route with the higher AD (e.g., 250) becomes active.

This ensures that the ION device maintains a persistent gateway toward the core infrastructure, preventing total fabric isolation and providing a fail-safe mechanism while the BGP peering issue is remediated. While BFD (Option A) helps with fast peer failure detection, it does not solve the issue of a missing prefix advertisement. Static route redundancy provides the necessary architectural "safety net" for the data center's reachability.

## NEW QUESTION # 61

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