

SD-WAN-Engineer New Cram Materials & SD-WAN-Engineer Latest Test Braindumps



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

Topic	Details
Topic 1	<ul style="list-style-type: none">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.
Topic 2	<ul style="list-style-type: none">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.
Topic 3	<ul style="list-style-type: none">Unified SASE: This domain covers Prisma SD-WAN integration with Prisma Access, ADEM configuration, IoT connectivity via Device-ID, Cloud Identity Engine integration, and UserGroup-based policy implementation.
Topic 4	<ul style="list-style-type: none">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.
Topic 5	<ul style="list-style-type: none">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.

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Palo Alto Networks SD-WAN Engineer Sample Questions (Q41-Q46):

NEW QUESTION # 41

An administrator is configuring a BGP peer on a Data Center ION to learn routes from the core switch. The goal is to have the ION learn these prefixes and then advertise them to all remote branch sites across the SD-WAN overlay.

Which setting must be configured on the BGP Peer to ensure these learned routes are redistributed into the SD-WAN fabric?

- A. Configure a "Prefix List" to deny all.
- B. Set the "Admin Distance" to 20.
- **C. Set the "Scope" to "Global".**
- D. Enable "Graceful Restart".

Answer: C

Explanation:

Comprehensive and Detailed Explanation

In Prisma SD-WAN routing configuration, the Scope setting on a BGP Peer (or a Static Route) controls the redistribution logic for the prefixes learned from that source.

Local Scope: If a BGP peer is configured with "Local" scope, the ION device will install the learned routes into its local routing table for its own reachability, but it will not advertise (redistribute) these routes to other ION devices via the Secure Fabric. They remain local to the site.

Global Scope: To advertise reachability to the rest of the network, the BGP peer must be configured with "Global" scope. This tells the ION that any prefixes learned from this specific neighbor (e.g., the DC Core Switch) should be propagated across the SD-WAN overlay to remote branches. This is the critical setting for enabling branch-to-DC communication for applications hosted behind that BGP peer. Without "Global" scope, the branches would never learn the routes to the data center subnets.

NEW QUESTION # 42

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

Answer: A

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 # 43

What are two requirements for implementing user/group-based path policies? (Choose two.)

- A. Data center ION
- B. Internal host detection
- C. Autonomous Digital Experience Manager (ADEM)
- D. Cloud Identity Engine

Answer: A,D

Explanation:

Comprehensive and Detailed Explanation

To implement User/Group-based policies (Path, QoS, or Security) in Prisma SD-WAN, the system requires two specific components to resolve user identities and map them to IP addresses within the fabric.

Cloud Identity Engine (CIE): This is the primary requirement for identity management. The Cloud Identity Engine connects the Prisma SD-WAN controller to your directory service (e.g., Active Directory, Azure AD/Entra ID). It allows the system to retrieve and resolve User and Group attributes (e.g., "Marketing Group," "User: john.doe") so they can be selected in policy rules. Without CIE, the controller cannot interpret the group names or user identities defined in the policies.

Data Center ION: In the standard deployment model for User-ID, a Data Center (DC) ION is required to act as the bridge or collector for IP-to-User mappings. The DC ION connects to the User-ID Agent (running on a PAN-OS firewall or Windows Server) to learn the mapping of IP addresses to usernames. It then redistributes this information to the controller or other branch IONs so they can identify which user is associated with the traffic flows originating from a specific private IP address.

NEW QUESTION # 44

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. Strict Priority Queuing (SPQ)
- 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 # 45

When allocating Aggregate Bandwidth for a Prisma Access "Remote Network" deployment (connecting 50 branch sites), how is the bandwidth license enforced?

- A. Each branch site is hard-capped at the specific bandwidth limit defined in its individual IPSec tunnel configuration.
- B. The bandwidth is shared as a pool across all sites in a specific Compute Location (Region); individual sites can burst up to the available pool capacity.
- C. The bandwidth license is only checked once during the initial onboarding; there is no ongoing enforcement.
- D. The bandwidth is allocated per device serial number and cannot be shared.

Answer: B

Explanation:

Comprehensive and Detailed Explanation

Prisma Access manages Remote Network bandwidth using an Aggregate Bandwidth licensing model.

Compute Locations: When you purchase bandwidth (e.g., 1 Gbps), you allocate it to specific Prisma Access Compute Locations (e.g., US West, Europe Central).

Shared Pool: All branch sites (Remote Networks) that connect to that specific Compute Location share the allocated bandwidth pool. For example, if you allocate 500 Mbps to "US West" and connect 10 branches to it, they compete for that 500 Mbps aggregate.

Bursting: An individual branch is not strictly rate-limited to a "slice" (e.g., 50 Mbps) unless you explicitly configure QoS guarantees. By default, a single branch can burst and consume a large portion of the aggregate pool if other branches are idle. The enforcement happens at the Region/Compute Node level, ensuring the total throughput does not exceed the licensed capacity for that region.

NEW QUESTION # 46

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