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

Topic	Details
Topic 1	<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 2	<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 3	<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 4	<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 User • Group-based policy implementation.
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 (Q20-Q25):

NEW QUESTION # 20

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

Answer: B

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 # 21

What is the number and structure of Prisma SD-WAN QoS queues supported per WAN interface?

- A. 12 queues
4 classes
3 application criteria within each class
- B. 8 queues
1 priority queue
7 non-priority queues
- C. 8 queues
2 classes
4 application criteria within each class
- **D. 16 queues
4 classes
4 application criteria with each class**

Answer: D

Explanation:

Comprehensive and Detailed Explanation

The Prisma SD-WAN (ION) QoS engine utilizes a hierarchical queuing structure designed to provide granular control over

application performance. Each WAN interface on an ION device supports a total of 16 QoS queues.

This 16-queue structure is derived from a matrix of 4 Classes (often referred to as Priority Classes) multiplied by 4 Application Criteria (Traffic Types).²

* 4 Priority Classes: The system defines four high-level business priority categories:³

* Platinum (Highest priority)⁴

* Gold

* Silver

* Bronze (Lowest priority/Best Effort)⁵

* 4 Application Criteria (Sub-queues): Within each of the four priority classes, the system further categorizes traffic into four specific application types to ensure proper handling (e.g., ensuring voice doesn't get stuck behind bulk data even within the same priority level):⁶

* Real-Time Video

* Real-Time Audio

* Transactional

* Bulk⁷

Calculation: 4 Priority Classes × 4 Application Types = 16 Total Queues per interface. This structure allows the scheduler to ensure that a "Platinum" voice call is prioritized over "Platinum" bulk data, and both are prioritized over "Gold" traffic.

NEW QUESTION # 22

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

Answer: A

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 # 23

When an ION device has been claimed, the cloud-based controller generates and communicates with the device by which method?

- A. Existing customer public key infrastructure (KPI)
- B. Self-signed certificate
- C. Customer Installed Certificate (CIC)
- D. Manufacturer Installed Certificate (MIC)

Answer: D

Explanation:

In the Prisma SD-WAN (formerly CloudGenix) architecture, the security and authenticity of device-to-controller communication are paramount. When a new ION (Instant-On Network) device is powered on and connected to the internet, it initiates a secure "phone home" process to the Prisma SD-WAN Cloud Controller.

To ensure that the controller is communicating with a genuine Palo Alto Networks hardware or software instance, the system utilizes a Manufacturer Installed Certificate (MIC).

The MIC is a unique digital certificate burned into the hardware's Trusted Platform Module (TPM) or secure storage during the

manufacturing process. This certificate acts as the device's foundational identity. When a customer "claims" a device in the Prisma SD-WAN portal using its serial number, the controller maps that serial number to the specific MIC associated with that unit. Once the device is claimed and attempts to connect, a mutual TLS (mTLS) handshake occurs. The ION device presents its MIC to the controller to prove its identity, and the controller validates this against its records. This method eliminates the need for manual staging, pre-configuration, or the complexity of managing a Customer Installed Certificate (CIC) or a private Public Key Infrastructure (PKI) during the initial deployment phase. By leveraging the MIC, Prisma SD-WAN achieves true Zero Touch Provisioning (ZTP), ensuring that only authorized, authentic devices can join the fabric and receive configuration policies, thereby maintaining a secure and automated onboarding workflow.

NEW QUESTION # 24

A network engineer is troubleshooting a "Voice Quality" issue. They suspect that the DSCP markings are being stripped or altered by the ISP.

Which tool in the Prisma SD-WAN portal allows the engineer to capture live packets on the WAN interface and inspect the IP header ToS/DSCP field?

- A. Flow Browser
- **B. Packet Capture (PCAP)**
- C. Event Logs
- D. Path Quality Monitor

Answer: B

NEW QUESTION # 25

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