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

Topic	Details
Topic 1	<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 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">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.

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"> • 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.

Palo Alto Networks SD-WAN Engineer Sample Questions (Q11-Q16):

NEW QUESTION # 11

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

Answer: B,D

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 # 12

Site templates are to be used for the large-scale deployment of 100 Prisma SD-WAN branch sites across different regions. Which two statements align with the capabilities and best practices for Prisma SD-WAN site templates? (Choose two.)

- A. Once a site has been deployed using a template, its configuration can be updated or modified by applying an updated version of the template.
- B. Site templates offer the capability to pre-stage device configurations by creating a device shell.
- C. The use of Jinja conditional statements within a site template is not supported, thereby limiting dynamic customization options.
- D. Mandatory variables for any site template include the site name, ION software version, and at least one ION serial number /device name pair.

Answer: B,D

Explanation:

Comprehensive and Detailed Explanation

Site Templates (often referred to as Site Configuration Templates) are a critical tool for the Zero Touch Provisioning (ZTP) of large-

scale deployments in Prisma SD-WAN.

1. Device Pre-staging (Statement C):

One of the primary capabilities of Site Templates is the creation of Device Shells. A device shell is a configuration container that exists in the controller before the physical hardware is installed or connected. By using a template, an administrator can pre-provision the entire configuration (interfaces, routing, subnets) for the "Site" and "Element" (Device). When the physical ION device is later connected to the internet and claimed (associated with the shell via its Serial Number), it immediately inherits this pre-staged configuration, enabling a true "plug-and-play" deployment.

2. Mandatory Variables (Statement B):

To successfully instantiate a functional site from a generic template, specific unique identifiers are required in the variable data set (typically a CSV file).

Site Name: Identifies the location in the portal.

ION Software Version: Ensures the device boots to the specific validated code version required for the deployment, preventing inconsistencies.

ION Serial Number / Device Name: Required to bind the logical configuration (Shell) to the physical hardware. Even if the serial is added later during the claim process, the structure of the template and the deployment workflow mandates these variables to ensure the device can be uniquely identified and managed within the fabric.

Note on Option D: While it is technically possible to re-deploy a template, the Best Practice for "Day 2" operations (updating or modifying configuration after deployment) is to use Prisma SD-WAN Stacks (Network Stacks, Security Stacks, etc.). Stacks allow for granular, policy-based updates across multiple sites without the destructive or rigid nature of re-applying a full site initialization template. Therefore, D is not the aligned best practice.

NEW QUESTION # 13

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

Answer: D

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 # 14

An administrator wants to configure a Path Policy that routes all "Guest Wi-Fi" traffic directly to the internet using the local broadband interface, bypassing all VPN tunnels.

Which Service & DC Group setting should be selected in the policy rule to achieve this "Direct Internet Access" (DIA) behavior?

- **A. Direct**
- B. Standard VPN
- C. Any-Private
- D. Default-Cluster

Answer: A

Explanation:

Comprehensive and Detailed Explanation

In Prisma SD-WAN Path Policies, the Service & DC Group (Destination) field determines where the traffic is sent.

Direct: This is the specific keyword/object used to instruct the ION to route traffic directly out to the local WAN interface (Local Breakout) towards the Internet, without encapsulation in a VPN tunnel. This is the correct setting for Guest Wi-Fi, SaaS applications (like Office 365), or any public web browsing that does not need to be backhauled.

Standard VPN / Default-Cluster: These options direct traffic into an IPSec overlay tunnel destined for a Data Center or another ION. Selecting these would "backhaul" the guest traffic, which contradicts the requirement for DIA.

When "Direct" is selected, the ION uses its available "Internet" category links. The policy can further specify which internet link to use (e.g., "Use Broadband, avoid LTE") via the path preference list, but the Destination type must be "Direct".

NEW QUESTION # 15

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

Answer: C

Explanation:

Comprehensive and Detailed Explanation

To validate specific packet-level details like DSCP (Differentiated Services Code Point) values, header checksums, or exact payload sizes, a Packet Capture (PCAP) is required.

* **PCAP Tool:** Prisma SD-WAN provides a built-in PCAP utility accessible directly from the portal. The engineer can select the specific Interface (e.g., Internet 1), apply a Filter (e.g., port 5060 or host 1.2.3.4), and capture the traffic.

* **Analysis:** The resulting .pcap file can be downloaded and opened in Wireshark. This allows the engineer to definitively see if the packets leaving the ION have DSCP EF (46) and if the packets arriving (if capturing on the other side) still retain that marking, or if the ISP has bleached it to CS0 (0).

* **Flow Browser (A):** While it shows "Application" and metrics, the Flow Browser typically displays the assigned priority class, not necessarily the raw bit-level DSCP value present in the packet header on the wire.

NEW QUESTION # 16

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