

# SD-WAN-Engineer Useful Dumps | SD-WAN-Engineer Valid Exam Materials

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Edit Template - T\_LAB\_Template\_Branch2

Basic Interfaces Routing Tunnels Inbound NAT Services Management Services

Device Port Configuration

Number of Ports: 10

0 1 2 3 4 5 6 7 8 9 10

Mgmt WAN WiFi LAN LAN LAN LTR WiFi

WAN Interfaces

| Port # | Interface | VLAN ID | Network Name | Priority | IPv4   |
|--------|-----------|---------|--------------|----------|--------|
| 0      | MPLS      | 0       | MPLS         | 0        | Static |
| 1      | INTERNET  | 0       | INTERNET     | 0        | DHCP   |

LAN Interfaces

| Port # | Interface | VLAN ID | Network Name  | Organization | Zones  |
|--------|-----------|---------|---------------|--------------|--------|
| 2      | vni-0/2   | 0       | Customer1-LAN | Customer1    | Select |
| 3      | vni-0/3   | 0       | Customer2-LAN | Customer2    | Select |
| 4      | vni-0/4   | 0       | Customer3-LAN | Customer3    | Select |

Referring to the gear icon shown in the exhibit, when would you select the gear icon for a VLAN in a template workflow?

- A. when all the devices sharing this workflow template have the default VLAN on the vni-0/1 interface
- B. when all the devices sharing this workflow template have the same VLAN on the vni-0/1 interface
- C. when all the devices sharing this workflow template have different VLANs on the vni-0/1 interface
- D. when all the devices sharing this workflow template have more than one VLAN on the vni-0/1 interface

Answer: C

9. By default, when configuring DIA through workflows, which protocol runs between the tvl interfaces connecting an Internet VR with the LAN VRF?

- A. static routing
- B. OSPF
- C. BGP
- D. VRRP

Answer: C

10. What are two node personalities in a Versa Analytics cluster? (Choose two.)

- A. Controller
- B. Search
- C. Analytics
- D. Gateway

Answer: B,D

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

| Topic   | Details  |
|---------|--|
| Topic 1 | <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 2 | <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 3 | <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>   |
| Topic 4 | <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 5 | <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>   |

## Palo Alto Networks SD-WAN Engineer Sample Questions (Q27-Q32):

### NEW QUESTION # 27

User-ID integration is configured for a Prisma SD-WAN deployment. Branch-1 has the user-to-IP mappings available, and User-1 is mapped to IP-1.

To which two use cases can User-ID based zone-based firewall policies be applied? (Choose two.)

- A. User-1 accessing a private application within Branch-1, and source User-ID based zone-based firewall rules on Branch-1 ION
- B. User-1 accessing a SaaS application on direct internet and source User-ID based zone-based firewall rules on Branch-1 ION
- C. User-1 accessing a private application in data center via SD-WAN overlay, and destination User-ID based zone-based firewall rules on DC ION
- D. User-1 accessing a private application in Branch-2 via SD-WAN overlay, and destination User-ID based zone-based firewall rules on Branch-2 ION

**Answer: A,B**

Explanation:

Comprehensive and Detailed Explanation

In Prisma SD-WAN (CloudGenix), Zone-Based Firewall (ZBFW) policies rely on the device's ability to map an IP address to a User-ID to enforce identity-based rules. The key to this question is understanding where the mapping exists and which direction the policy attributes (Source User vs. Destination User) apply to.

1. Mapping Location (Branch-1): The prompt states that Branch-1 has the user-to-IP mapping for User-1. For the most effective and scalable security enforcement, policies should be applied at the source (ingress) device where the traffic originates and where the user identity is known. This prevents unauthorized traffic from consuming WAN bandwidth only to be dropped at the destination. Therefore, the Branch-1 ION is the correct enforcement point for User-1's traffic.

2. Source vs. Destination User:

User-1 is the Source: In all scenarios, User-1 is the initiator of the traffic. Therefore, the security rule must match on Source User-ID.

Options C and D are incorrect because they suggest using Destination User-ID based rules to control User-1. Destination User-ID rules are used when the target of the traffic is a known user (e.g., VoIP calls to a specific user's phone), not when filtering based on

the sender. Furthermore, relying on the DC or Branch-2 ION to enforce policies for User-1 would require the propagation of User-ID mappings across the overlay, whereas local enforcement at Branch-1 is the standard architectural model.

### 3. Valid Use Cases (A and B):

Option A (SaaS/Internet): The Branch-1 ION acts as the internet gateway. It can use the local mapping (IP-1 = User-1) to allow or deny access to specific SaaS applications (Direct Internet Access) based on the user's identity (e.g., "Allow Marketing Group to access Social Media").

Option B (Internal Segmentation): The Branch-1 ION can enforce policies for traffic moving between local zones (e.g., from a "Users" VLAN to a "Servers" VLAN within the branch). Since the ION routes this traffic and holds the mapping, it can enforce Source User-ID policies to secure local private applications.

## NEW QUESTION # 28

In the Prisma SD-WAN portal, an administrator is viewing the "Media" analytics for a branch site to troubleshoot complaints about poor voice quality.

When calculating the Mean Opinion Score (MOS) for voice traffic, which two metrics does the system prioritize active monitoring for, even when no user voice traffic is present on the link? (Choose two.)

- A. Jitter
- B. Latency (One-Way)
- C. Throughput
- D. Packet Loss

**Answer: A,D**

Explanation:

Comprehensive and Detailed Explanation

Prisma SD-WAN calculates the Mean Opinion Score (MOS) to provide a standardized metric (1-5) for voice quality. To ensure the system always knows the "voice readiness" of a path-even before a call starts-it uses Active Probes (synthetic UDP packets). While latency is measured, the MOS calculation algorithm is most heavily penalized by Packet Loss (D) and Jitter (B).

Packet Loss: Even a small amount of loss (e.g., >1%) dramatically reduces voice clarity, causing dropouts.

Jitter: High variance in packet arrival time (jitter) causes the "robotic" voice effect and buffer underruns.

The system continuously measures these specific metrics on all WAN links using synthetic probes. If the packet loss or jitter exceeds the threshold defined in the "Path Quality Profile" (e.g., Voice Profile), the path is marked as non-compliant, and the MOS score drops, triggering a policy action to move the flow. Throughput (C) is less critical for voice as calls consume very little bandwidth (e.g., 64-100 Kbps), making congestion (loss/jitter) the primary enemy, not raw speed.

## NEW QUESTION # 29

What is the default behavior of the Zone-Based Firewall (ZBFW) for traffic originating from the ION device itself (e.g., DNS queries, NTP sync, or Controller connectivity) destined for the "Internet" zone?

- A. It is allowed only if the "Management" interface is used.
- B. It is inspected by the "Global" security stack but bypasses local rules.
- C. It is denied by the default "Deny All" rule unless explicitly allowed.
- D. It is allowed by the implicit "Self-Zone" allow rule.

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation

The Self-Zone is a predefined security zone in the Prisma SD-WAN ZBFW that represents the ION device's own control plane and management traffic.

Default Rule: The security policy contains an implicit, uneditable default rule that Allows traffic originating from the Self-Zone to any destination zone (Internet, Private WAN, etc.).

Rationale: This ensures that the device can always perform essential critical functions-such as connecting to the Cloud Controller, resolving DNS, syncing time via NTP, and establishing VPN tunnels-without the administrator needing to manually create "Allow" rules for the device itself. If this traffic were blocked by a "Deny All" default, the device would become unmanageable (bricked) immediately after applying the policy.

## NEW QUESTION # 30

Which component of the Prisma SD-WAN solution is responsible for the deep application identification (App-ID) and the generation of flow metrics (Network Transfer Time, Server Response Time) at the branch?

- A. The ION Device Data Plane
- B. The CloudBlade container
- C. The API Gateway
- D. The Prisma SD-WAN Controller

### Answer: A

Explanation:

Comprehensive and Detailed Explanation

The ION Device Data Plane (the software running locally on the hardware appliance at the branch) is the component responsible for the heavy lifting of traffic analysis.

Edge Processing Prisma SD-WAN uses an "Application-Defined" architecture. The ION device performs Deep Packet Inspection (DPI) on the first few packets of a flow to identify the application (e.g., distinguishing "Skype Video" from "Skype Chat").

Metric Calculation: The ION device timestamping engine calculates the performance metrics (RTT, NTT, SRT) in real-time as packets pass through its interfaces. It aggregates this metadata.

Role of Controller (B): The Controller collects and visualizes this data (Analytics), but it does not generate it. The Controller does not sit in the data path of the user traffic. If the ION relied on the controller for App-ID, latency would be unacceptably high. Therefore, all detection and metric generation happens locally on the ION Device.

## NEW QUESTION # 31

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. Mandatory variables for any site template include the site name, ION software version, and at least one ION serial number /device name pair.
- C. Site templates offer the capability to pre-stage device configurations by creating a device shell.
- D. The use of Jinja conditional statements within a site template is not supported, thereby limiting dynamic customization options.

### Answer: B,C

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 # 32

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