

Certification PSE-Strata-Pro-24 Questions - PSE-Strata-Pro-24 Lab Questions



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Palo Alto Networks PSE-Strata-Pro-24 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Deployment and Evaluation: This section of the exam measures the skills of Deployment Engineers and focuses on identifying the capabilities of Palo Alto Networks NGFWs. Candidates will evaluate features that protect against both known and unknown threats. They will also explain identity management from a deployment perspective and describe the proof of value (PoV) process, which includes assessing the effectiveness of NGFW solutions.
Topic 2	<ul style="list-style-type: none">• Network Security Strategy and Best Practices: This section of the exam measures the skills of Security Strategy Specialists and highlights the importance of the Palo Alto Networks five-step Zero Trust methodology. Candidates must understand how to approach and apply the Zero Trust model effectively while emphasizing best practices to ensure robust network security.
Topic 3	<ul style="list-style-type: none">• Business Value and Competitive Differentiators: This section of the exam measures the skills of Technical Business Value Analysts and focuses on identifying the value proposition of Palo Alto Networks Next-Generation Firewalls (NGFWs). Candidates will assess the technical business benefits of tools like Panorama and SCM. They will also recognize customer-relevant topics and align them with Palo Alto Networks' best solutions. Additionally, understanding Strata's unique differentiators is a key component of this domain.
Topic 4	<ul style="list-style-type: none">• Architecture and Planning: This section of the exam measures the skills of Network Architects and emphasizes understanding customer requirements and designing suitable deployment architectures. Candidates must explain Palo Alto Networks' platform networking capabilities in detail and evaluate their suitability for various environments. Handling aspects like system sizing and fine-tuning is also a critical skill assessed in this domain.

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Palo Alto Networks Systems Engineer Professional - Hardware Firewall Sample Questions (Q51-Q56):

NEW QUESTION # 51

A customer asks a systems engineer (SE) how Palo Alto Networks can claim it does not lose throughput performance as more Cloud-Delivered Security Services (CDSS) subscriptions are enabled on the firewall.

Which two concepts should the SE explain to address the customer's concern? (Choose two.)

- A. Advanced Routing Engine
- B. Parallel Processing
- C. Single Pass Architecture
- D. Management Data Plane Separation

Answer: B,C

Explanation:

The customer's question focuses on how Palo Alto Networks Strata Hardware Firewalls maintain throughput performance as more Cloud-Delivered Security Services (CDSS) subscriptions-such as Threat Prevention, URL Filtering, WildFire, DNS Security, and others-are enabled. Unlike traditional firewalls where enabling additional security features often degrades performance, Palo Alto Networks leverages its unique architecture to minimize this impact. The systems engineer (SE) should explain two key concepts-Parallel Processing and Single Pass Architecture-which are foundational to the firewall's ability to sustain throughput. Below is a detailed explanation, verified against Palo Alto Networks documentation.

Step 1: Understanding Cloud-Delivered Security Services (CDSS) and Performance Concerns CDSS subscriptions enhance the Strata Hardware Firewall's capabilities by integrating cloud-based threat intelligence and advanced security features into PAN-OS.

Examples include:

- * Threat Prevention: Blocks exploits, malware, and command-and-control traffic.
- * WildFire: Analyzes unknown files in the cloud for malware detection.
- * URL Filtering: Categorizes and controls web traffic.

Traditionally, enabling such services on other firewalls increases processing overhead, as each feature requires separate packet scans or additional hardware resources, leading to latency and throughput loss. Palo Alto Networks claims consistent performance due to its innovative design, rooted in the Single Pass Parallel Processing (SP3) architecture.

Reference: Palo Alto Networks Cloud-Delivered Security Services Overview

"CDSS subscriptions integrate with NGFWs to deliver prevention-oriented security without compromising performance, leveraging the SP3 architecture." Step 2: Explaining the Relevant Concepts The SE should focus on A. Parallel Processing and C. Single Pass Architecture, as these directly address how throughput is maintained when CDSS subscriptions are enabled.

Concept A: Parallel Processing

Definition: Parallel Processing refers to the hardware architecture in Palo Alto Networks NGFWs, where specialized processors handle distinct functions (e.g., networking, security, decryption) simultaneously. This is achieved through a separation of duties across dedicated hardware components, such as the Network Processor, Security Processor, and Signature Matching Processor, all working in parallel.

How It Addresses the Concern: When CDSS subscriptions are enabled, tasks like threat signature matching (Threat Prevention), URL categorization (URL Filtering), or file analysis forwarding (WildFire) are offloaded to specific processors. These operate concurrently rather than sequentially, preventing bottlenecks. The parallel execution ensures that adding more security services doesn't linearly increase processing time or reduce throughput.

Technical Detail:

Network Processor: Handles routing, NAT, and flow lookup.

Security Processor: Manages encryption/decryption and policy enforcement.

Signature Matching Processor: Performs content inspection for threats and CDSS features.

High-speed buses (e.g., 1Gbps in high-end models) connect these processors, enabling rapid data transfer.

Outcome: Throughput remains high because the workload is distributed across parallel hardware resources, not stacked on a single CPU.

Reference: PAN-OS Administrator's Guide (11.1) - Hardware Architecture

"Parallel Processing hardware ensures that function-specific tasks are executed concurrently, maintaining performance as security services scale." Concept C: Single Pass Architecture Definition: Single Pass Architecture is the software approach in PAN-OS where a packet is processed once, with all necessary functions-networking, policy lookup, App-ID, User-ID, decryption, and content inspection (including CDSS features)-performed in a single pass. This contrasts with multi-pass architectures, where packets are scanned repeatedly for each enabled feature.

How It Addresses the Concern: When CDSS subscriptions are activated, their inspection tasks (e.g., threat signatures, URL checks) are integrated into the single-pass process. The packet isn't reprocessed for each service; instead, a stream-based, uniform signature-matching engine applies all relevant checks in one go.

This minimizes latency and preserves throughput, as the overhead of additional services is marginal.

Technical Detail:

A packet enters the firewall and is classified by App-ID.

Decryption (if needed) occurs, exposing content.

A single Content-ID engine scans the stream for threats, URLs, and other CDSS-related patterns simultaneously.

Policy enforcement and logging occur without additional passes.

Outcome: Enabling more CDSS subscriptions adds rules to the existing scan, not new processing cycles, ensuring consistent performance.

Reference: Palo Alto Networks Single Pass Architecture Whitepaper

"Single Pass software performs all security functions in one pass, eliminating redundant processing and maintaining high throughput even with multiple services enabled." Step 3: Evaluating the Other Options To confirm A and C are correct, let's examine why B and D don't directly address the throughput concern:

B). Advanced Routing Engine:

Analysis: The Advanced Routing Engine in PAN-OS enhances routing capabilities (e.g., BGP, OSPF) and supports features like path monitoring. While important for network performance, it doesn't directly influence the processing of CDSS subscriptions, which occur at the security and content inspection layers, not the routing layer.

Conclusion: Not relevant to the question.

Reference: PAN-OS Administrator's Guide (11.1) - Routing Overview - "The Advanced Routing Engine optimizes network paths but is separate from security processing." D). Management Data Plane Separation:

Analysis: This refers to the separation of the control plane (management tasks like configuration and logging) and data plane (packet processing). It ensures management tasks don't impact traffic processing but doesn't directly address how CDSS subscriptions affect throughput within the data plane itself.

Conclusion: Indirectly supportive but not a primary explanation.

Reference: PAN-OS Administrator's Guide (11.1) - Hardware Architecture - "Control and data plane separation prevents management load from affecting throughput." Step 4: Tying It Together for the Customer The SE should explain:

Parallel Processing: "Our firewalls use dedicated hardware processors working in parallel for networking, security, and threat inspection. When you enable more CDSS subscriptions, the workload is spread across these processors, so throughput doesn't drop." Single Pass Architecture: "Our software processes each packet once, applying all security checks-including CDSS features-in a single scan. This avoids the performance hit you'd see with other firewalls that reprocess packets for each new service." This dual approach-hardware parallelism and software efficiency-ensures the firewall scales security without sacrificing speed.

NEW QUESTION # 52

What are the first two steps a customer should perform as they begin to understand and adopt Zero Trust principles? (Choose two)

- A. Implement VM-Series NGFWs in the customer's public and private clouds to protect east-west traffic.
- B. Enable relevant Cloud-Delivered Security Services (CDSS) subscriptions to automatically protect the customer's environment from both internal and external threats.
- C. Map the transactions between users, applications, and data, then verify and inspect those transactions.
- D. Understand which users, devices, infrastructure, applications, data, and services are part of the network or have access to it.

Answer: C,D

Explanation:

Zero Trust principles revolve around minimizing trust in the network and verifying every interaction. To adopt Zero Trust, customers should start by gaining visibility and understanding the network and its transactions.

A: Understand which users, devices, infrastructure, applications, data, and services are part of the network or have access to it.

* The first step in adopting Zero Trust is understanding the full scope of the network. Identifying users, devices, applications, and data is critical for building a comprehensive security strategy.

C: Map the transactions between users, applications, and data, then verify and inspect those transactions.

* After identifying all assets, the next step is to map interactions and enforce verification and inspection of these transactions to ensure security.

Why Other Options Are Incorrect

* B:Enabling CDSS subscriptions is important for protection but comes after foundational Zero Trust principles are established.

* D:Implementing VM-Series NGFWs is part of enforcing Zero Trust, but it is not the first step.

Visibility and understanding come first.

References:

* Palo Alto Networks Zero Trust Overview

NEW QUESTION # 53

Which two compliance frameworks are included with the Premium version of Strata Cloud Manager (SCM)? (Choose two)

- A. Health Insurance Portability and Accountability Act (HIPAA)
- **B. National Institute of Standards and Technology (NIST)**
- C. Center for Internet Security (CIS)
- **D. Payment Card Industry (PCI)**

Answer: B,D

Explanation:

Step 1: Understanding Strata Cloud Manager (SCM) Premium

Strata Cloud Manager is a unified management interface for Strata NGFWs, Prisma Access, and other Palo Alto Networks solutions. The Premium version (subscription-based) includes advanced features like:

* AIOPS Premium: Predictive analytics, capacity planning, and compliance reporting.

* Compliance Posture Management: Pre-built dashboards and reports for specific regulatory frameworks.

Compliance frameworks in SCM Premium provide visibility into adherence to standards like PCI DSS and NIST, generating actionable insights and audit-ready reports based on firewall configurations, logs, and traffic data.

NEW QUESTION # 54

In which two locations can a Best Practice Assessment (BPA) report be generated for review by a customer? (Choose two.)

- A. AIOPS
- **B. Customer Support Portal**
- C. Strata Cloud Manager (SCM)
- **D. PANW Partner Portal**

Answer: B,D

Explanation:

The Best Practice Assessment (BPA) report evaluates firewall and Panorama configurations against Palo Alto Networks' best practice recommendations. It provides actionable insights to improve the security posture of the deployment. BPA reports can be generated from the following locations:

* Why "PANW Partner Portal" (Correct Answer A)? Partners with access to the Palo Alto Networks Partner Portal can generate BPA reports for customers as part of their service offerings. This allows partners to assess and demonstrate compliance with best practices.

* Why "Customer Support Portal" (Correct Answer B)? Customers can log in to the Palo Alto Networks Customer Support Portal to generate their own BPA reports. This enables organizations to self-assess and improve their firewall configurations.

* Why not "AIOPS" (Option C)? While AIOPS provides operational insights and best practice recommendations, it does not generate full BPA reports. BPA and AIOPS are distinct tools within the Palo Alto Networks ecosystem.

* Why not "Strata Cloud Manager (SCM)" (Option D)? Strata Cloud Manager is designed for managing multiple Palo Alto Networks cloud-delivered services and NGFWs but does not currently support generating BPA reports. BPA is limited to the Partner Portal and Customer Support Portal.

NEW QUESTION # 55

A security engineer has been tasked with protecting a company's on-premises web servers but is not authorized to purchase a web application firewall (WAF).

Which Palo Alto Networks solution will protect the company from SQL injection zero-day, command injection zero-day, Cross-Site Scripting (XSS) attacks, and IIS exploits?

- A. Advanced WildFire and PAN-OS 10.0 (and higher)
- B. Threat Prevention, Advanced URL Filtering, and PAN-OS 10.2 (and higher)
- **C. Advanced Threat Prevention and PAN-OS 11.x**
- D. Threat Prevention and PAN-OS 11.x

Answer: C

Explanation:

Protecting web servers from advanced threats like SQL injection, command injection, XSS attacks, and IIS exploits requires a solution capable of deep packet inspection, behavioral analysis, and inline prevention of zero-day attacks. The most effective solution here is Advanced Threat Prevention (ATP) combined with PAN-OS 11.x.

* Why "Advanced Threat Prevention and PAN-OS 11.x" (Correct Answer B)? Advanced Threat Prevention (ATP) enhances traditional threat prevention by using inline deep learning models to detect and block advanced zero-day threats, including SQL injection, command injection, and XSS attacks. With PAN-OS 11.x, ATP extends its detection capabilities to detect unknown exploits without relying on signature-based methods. This functionality is critical for protecting web servers in scenarios where a dedicated WAF is unavailable.

ATP provides the following benefits:

* Inline prevention of zero-day threats using deep learning models.

* Real-time detection of attacks like SQL injection and XSS.

* Enhanced protection for web server platforms like IIS.

* Full integration with the Palo Alto Networks Next-Generation Firewall (NGFW).

* Why not "Threat Prevention and PAN-OS 11.x" (Option A)? Threat Prevention relies primarily on signature-based detection for known threats. While it provides basic protection, it lacks the capability to block zero-day attacks using advanced methods like inline deep learning. For zero-day SQL injection and XSS attacks, Threat Prevention alone is insufficient.

* Why not "Threat Prevention, Advanced URL Filtering, and PAN-OS 10.2 (and higher)" (Option C)? While this combination includes Advanced URL Filtering (useful for blocking malicious URLs associated with exploits), it still relies on Threat Prevention, which is signature-based. This combination does not provide the zero-day protection needed for advanced injection attacks or XSS vulnerabilities.

* Why not "Advanced WildFire and PAN-OS 10.0 (and higher)" (Option D)? Advanced WildFire is focused on analyzing files and executables in a sandbox environment to identify malware. While it is excellent for identifying malware, it is not designed to provide inline prevention for web-based injection attacks or XSS exploits targeting web servers.

Reference: The Palo Alto Networks Advanced Threat Prevention documentation highlights its ability to block zero-day injection attacks and web-based exploits by leveraging inline machine learning and behavioral analysis. This makes it the ideal solution for the described scenario.

NEW QUESTION # 56

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