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Exam : PSE-Strata-Pro-24

Title : Palo Alto Networks Systems Engineer Professional - Hardware Firewall

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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"> • 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 3	<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 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 (Q57-Q62):

NEW QUESTION # 57

A prospective customer is concerned about stopping data exfiltration, data infiltration, and command-and-control (C2) activities over port 53.

Which subscription(s) should the systems engineer recommend?

- A. Threat Prevention
- B. App-ID and Data Loss Prevention
- C. Advanced Threat Prevention and Advanced URL Filtering
- **D. DNS Security**

Answer: D

Explanation:

* DNS Security (Answer C):

* DNS Security is the appropriate subscription for addressing threats over port 53.

* DNS tunneling is a common method used for data exfiltration, infiltration, and C2 activities, as it allows malicious traffic to be hidden within legitimate DNS queries.

* The DNS Security service applies machine learning models to analyze DNS queries in real-time, block malicious domains, and prevent tunneling activities.

- * It integrates seamlessly with the NGFW, ensuring advanced protection against DNS-based threats without requiring additional infrastructure.
 - * Why Not Threat Prevention (Answer A):
 - * Threat Prevention is critical for blocking malware, exploits, and vulnerabilities, but it does not specifically address DNS-based tunneling or C2 activities over port 53.
 - * Why Not App-ID and Data Loss Prevention (Answer B):
 - * While App-ID can identify applications, and Data Loss Prevention (DLP) helps prevent sensitive data leakage, neither focuses on blocking DNS tunneling or malicious activity over port 53.
 - * Why Not Advanced Threat Prevention and Advanced URL Filtering (Answer D):
 - * Advanced Threat Prevention and URL Filtering are excellent for broader web and network threats, but DNS tunneling specifically requires the DNS Security subscription, which specializes in DNS-layer threats.
- References from Palo Alto Networks Documentation:
- * DNS Security Subscription Overview

NEW QUESTION # 58

Which two statements correctly describe best practices for sizing a firewall deployment with decryption enabled? (Choose two.)

- A. Perfect Forward Secrecy (PFS) ephemeral key exchange algorithms such as Diffie-Hellman Ephemeral (DHE) and Elliptic-Curve Diffie-Hellman Exchange (ECDHE) consume more processing resources than Rivest-Shamir-Adleman (RSA) algorithms.
- B. Large average transaction sizes consume more processing power to decrypt.
- C. SSL decryption traffic amounts vary from network to network.
- D. Rivest-Shamir-Adleman (RSA) certificate authentication method (not the RSA key exchange algorithm) consumes more resources than Elliptic Curve Digital Signature Algorithm (ECDSA), but ECDSA is more secure.

Answer: A,C

Explanation:

When planning a firewall deployment with SSL/TLS decryption enabled, it is crucial to consider the additional processing overhead introduced by decrypting and inspecting encrypted traffic. Here are the details for each statement:

- * Why "SSL decryption traffic amounts vary from network to network" (Correct Answer A)? SSL decryption traffic varies depending on the organization's specific network environment, user behavior, and applications. For example, networks with heavy web traffic, cloud applications, or encrypted VoIP traffic will have more SSL/TLS decryption processing requirements. This variability means each deployment must be properly assessed and sized accordingly.
- * Why "Perfect Forward Secrecy (PFS) ephemeral key exchange algorithms such as Diffie-Hellman Ephemeral (DHE) and Elliptic-Curve Diffie-Hellman Exchange (ECDHE) consume more processing resources than Rivest-Shamir-Adleman (RSA) algorithms" (Correct Answer C)? PFS algorithms like DHE and ECDHE generate unique session keys for each connection, ensuring better security but requiring significantly more processing power compared to RSA key exchange. When decryption is enabled, firewalls must handle these computationally expensive operations for every encrypted session, impacting performance and sizing requirements.
- * Why not "Large average transaction sizes consume more processing power to decrypt" (Option B)? While large transaction sizes can consume additional resources, SSL/TLS decryption is more dependent on the number of sessions and the complexity of the encryption algorithms used, rather than the size of the transactions. Hence, this is not a primary best practice consideration.
- * Why not "Rivest-Shamir-Adleman (RSA) certificate authentication method consumes more resources than Elliptic Curve Digital Signature Algorithm (ECDSA), but ECDSA is more secure" (Option D)? This statement discusses certificate authentication methods, not SSL/TLS decryption performance. While ECDSA is more efficient and secure than RSA, it is not directly relevant to sizing considerations for firewall deployments with decryption enabled.

NEW QUESTION # 59

Which two tools should a systems engineer use to showcase the benefit of an evaluation that a customer has just concluded?

- A. Firewall Sizing Guide
- B. Golden Images
- C. Security Lifecycle Review (SLR)
- D. Best Practice Assessment (BPA)

Answer: C,D

Explanation:

After a customer has concluded an evaluation of Palo Alto Networks solutions, it is critical to provide a detailed analysis of the

results and benefits gained during the evaluation. The following two tools are most appropriate:

- * Why "Best Practice Assessment (BPA)" (Correct Answer A)? The BPA evaluates the customer's firewall configuration against Palo Alto Networks' recommended best practices. It highlights areas where the configuration could be improved to strengthen security posture. This is an excellent tool to showcase how adopting Palo Alto Networks' best practices aligns with industry standards and improves security performance.
- * Why "Security Lifecycle Review (SLR)" (Correct Answer B)? The SLR provides insights into the customer's security environment based on data collected during the evaluation. It identifies vulnerabilities, risks, and malicious activities observed in the network and demonstrates how Palo Alto Networks' solutions can address these issues. SLR reports use clear visuals and metrics, making it easier to showcase the benefits of the evaluation.
- * Why not "Firewall Sizing Guide" (Option C)? The Firewall Sizing Guide is a pre-sales tool used to recommend the appropriate firewall model based on the customer's network size, performance requirements, and other criteria. It is not relevant for showcasing the benefits of an evaluation.
- * Why not "Golden Images" (Option D)? Golden Images refer to pre-configured templates for deploying firewalls in specific use cases. While useful for operational efficiency, they are not tools for demonstrating the outcomes or benefits of a customer evaluation. Reference: Palo Alto Networks documentation for Best Practice Assessment (BPA) and Security Lifecycle Review (SLR) confirms their role in showcasing evaluation benefits.

NEW QUESTION # 60

Which initial action can a network security engineer take to prevent a malicious actor from using a file-sharing application for data exfiltration without impacting users who still need to use file-sharing applications?

- A. Use DNS Security to limit access to file-sharing applications based on job functions.
- B. Use App-ID to block all file-sharing applications and uploading abilities.
- C. Use App-ID to limit access to file-sharing applications based on job functions.
- D. Use DNS Security to block all file-sharing applications and uploading abilities.

Answer: C

Explanation:

To prevent malicious actors from abusing file-sharing applications for data exfiltration, App-ID provides a granular approach to managing application traffic. Palo Alto Networks' App-ID is a technology that identifies applications traversing the network, regardless of port, protocol, encryption (SSL), or evasive tactics. By leveraging App-ID, security engineers can implement policies that restrict the use of specific applications or functionalities based on job functions, ensuring that only authorized users or groups can use file-sharing applications while blocking unauthorized or malicious usage.

Here's why the options are evaluated this way:

- * Option A: DNS Security focuses on identifying and blocking malicious domains. While it plays a critical role in preventing certain attacks (like command-and-control traffic), it is not effective for managing application usage. Hence, this is not the best approach.
- * Option B (Correct): App-ID provides the ability to identify file-sharing applications (such as Dropbox, Google Drive, or OneDrive) and enforce policies to restrict their use. For example, you can create a security rule allowing file-sharing apps only for specific job functions, such as HR or marketing, while denying them for other users. This targeted approach ensures legitimate business needs are not disrupted, which aligns with the requirement of not impacting valid users.
- * Option C: Blocking all file-sharing applications outright using DNS Security is a broad measure that will indiscriminately impact legitimate users. This does not meet the requirement of allowing specific users to continue using file-sharing applications.
- * Option D: While App-ID can block file-sharing applications outright, doing so will prevent legitimate usage and is not aligned with the requirement to allow usage based on job functions.

How to Implement the Solution (Using App-ID):

- * Identify the relevant file-sharing applications using App-ID in Palo Alto Networks' predefined application database.
- * Create security policies that allow these applications only for users or groups defined in your directory (e.g., Active Directory).
- * Use custom App-ID filters or explicit rules to control specific functionalities of file-sharing applications, such as uploads or downloads.
- * Monitor traffic to ensure that only authorized users are accessing the applications and that no malicious activity is occurring.

References:

- * Palo Alto Networks Admin Guide: Application Identification and Usage Policies.
- * Best Practices for App-ID Configuration: <https://docs.paloaltonetworks.com>

NEW QUESTION # 61

Which two files are used to deploy CN-Series firewalls in Kubernetes clusters? (Choose two.)

- A. PAN-CN-MGMT-CONFIGMAP
- B. PAN-CN-NGFW-CONFIG
- C. PAN-CNI-MULTUS
- D. PAN-CN-MGMT

Answer: A,D

Explanation:

The CN-Series firewalls are Palo Alto Networks' containerized Next-Generation Firewalls (NGFWs) designed to secure Kubernetes clusters. Unlike the Strata Hardware Firewalls (e.g., PA-Series), which are physical appliances, the CN-Series is a software-based solution deployed within containerized environments.

The question focuses on the specific files used to deploy CN-Series firewalls in Kubernetes clusters. Based on Palo Alto Networks' official documentation, the two correct files are PAN-CN-MGMT-CONFIGMAP and PAN-CN-MGMT. Below is a detailed explanation of why these files are essential, with references to CN-Series deployment processes (noting that Strata hardware documentation is not directly applicable here but is contextualized for clarity).

Step 1: Understanding CN-Series Deployment in Kubernetes

The CN-Series firewall consists of two primary components: the CN-MGMT (management plane) and the CN-NGFW (data plane). These components are deployed as containers in a Kubernetes cluster, orchestrated using YAML configuration files. The deployment process involves defining resources such as ConfigMaps, Pods, and Services to instantiate and manage the CN-Series components. The files listed in the question are Kubernetes manifests or configuration files used during this process.

* CN-MGMT Role: The CN-MGMT container handles the management plane, providing configuration, logging, and policy enforcement for the CN-Series firewall. It requires a dedicated YAML file to define its deployment.

* CN-NGFW Role: The CN-NGFW container handles the data plane, inspecting traffic within the Kubernetes cluster. It relies on configurations provided by CN-MGMT and additional networking setup (e.g., via CNI plugins).

* ConfigMaps: Kubernetes ConfigMaps store configuration data separately from container images, making them critical for passing settings to CN-Series components.

NEW QUESTION # 62

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