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

Topic	Details
Topic 1	<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.

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"> • 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.

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Palo Alto Networks Systems Engineer Professional - Hardware Firewall Sample Questions (Q17-Q22):

NEW QUESTION # 17

Regarding APIs, a customer RFP states: "The vendor's firewall solution must provide an API with an enforcement mechanism to deactivate API keys after two hours." How should the response address this clause?

- A. Yes - The default setting must be changed from no limit to 120 minutes.
- B. No - The PAN-OS XML API does not support keys.
- C. Yes - This is the default setting for API keys.
- D. No - The API keys can be made, but there is no method to deactivate them based on time.

Answer: A

Explanation:

Palo Alto Networks' PAN-OS supports API keys for authentication when interacting with the firewall's RESTful and XML-based APIs. By default, API keys do not have an expiration time set, but the expiration time for API keys can be configured by an administrator to meet specific requirements, such as a time-based deactivation after two hours. This is particularly useful for compliance and security purposes, where API keys should not remain active indefinitely.

Here's an evaluation of the options:

* Option A: This is incorrect because the default setting for API keys does not include an expiration time.

By default, API keys are valid indefinitely unless explicitly configured otherwise.

* Option B: This is incorrect because PAN-OS fully supports API keys. The API keys are integral to managing access to the firewall's APIs and provide a secure method for authentication.

* Option C: This is incorrect because PAN-OS does support API key expiration when explicitly configured. While the default is "no expiration," the feature to configure an expiration time (e.g., 2 hours) is available.

* Option D (Correct): The correct response to the RFP clause is that the default API key settings need to be modified to set the expiration time to 120 minutes (2 hours). This aligns with the customer requirement to enforce API key deactivation based on time. Administrators can configure this using the PAN-OS management interface or the CLI.

How to Configure API Key Expiration (Steps):

* Access the Web Interface or CLI on the firewall.

* Navigate to Device > Management > API Key Lifetime Settings (on the GUI).

* Set the desired expiration time (e.g., 120 minutes).

* Alternatively, use the CLI to configure the API key expiration:

```
set deviceconfig system api-key-expiry <time-in-minutes>
commit
```

* Verify the configuration using the show command or by testing API calls to ensure the key expires after the set duration.

References:

* Palo Alto Networks API Documentation: <https://docs.paloaltonetworks.com/apis>

* Configuration Guide: Managing API Key Expiration

NEW QUESTION # 18

A systems engineer (SE) successfully demonstrates NGFW managed by Strata Cloud Manager (SCM) to a company. In the resulting planning phase of the proof of value (POV), the CISO requests a test that shows how the security policies are either meeting, or are progressing toward meeting, industry standards such as Critical Security Controls (CSC), and how the company can verify that it is effectively utilizing the functionality purchased.

During the POV testing timeline, how should the SE verify that the POV will meet the CISO's request?

- A. At the beginning, use PANhandler golden images that are designed to align to compliance and to turning on the features for the CDSS subscription being tested.
- B. Near the end, the customer pulls information from these SCM dashboards: Best Practices, CDSS Adoption, and NGFW Feature Adoption.
- **C. Near the end, pull a Security Lifecycle Review (SLR) in the POV and create a report for the customer.**
- D. At the beginning, work with the customer to create custom dashboards and reports for any information required, so reports can be pulled as needed by the customer.

Answer: C

Explanation:

* Security Lifecycle Review (SLR) (Answer A):

* The Security Lifecycle Review (SLR) is a detailed report generated by Palo Alto Networks firewalls that provides visibility into application usage, threats, and policy alignment with industry standards.

* During the POV, running an SLR near the end of the timeline allows the customer to see:

* How well their current security policies align with Critical Security Controls (CSC) or other industry standards.

* Insights into application usage and threats discovered during the POV.

* This provides actionable recommendations for optimizing policies and ensuring the purchased functionality is being effectively utilized.

* Why Not B:

* While creating custom dashboards and reports at the beginning might provide useful insights, the question focuses on verifying progress toward meeting CSC standards. This is specifically addressed by the SLR, which is designed to measure and report on such criteria.

* Why Not C:

* Pulling information from SCM dashboards like Best Practices and Feature Adoption can help assess firewall functionality but may not provide a comprehensive review of compliance or CSC alignment, as the SLR does.

* Why Not D:

* While PANhandler golden images can help configure features in alignment with specific subscriptions or compliance goals, they are primarily used to deploy predefined templates, not to assess security policy effectiveness or compliance with CSC standards.

References from Palo Alto Networks Documentation:

* Security Lifecycle Review Overview

* Strata Cloud Manager Dashboards

NEW QUESTION # 19

Which technique is an example of a DNS attack that Advanced DNS Security can detect and prevent?

- A. Polymorphic DNS
- B. CNAME cloaking
- C. DNS domain rebranding
- **D. High entropy DNS domains**

Answer: D

Explanation:

Advanced DNS Security on Palo Alto Networks firewalls is designed to identify and prevent a wide range of DNS-based attacks. Among the listed options, "High entropy DNS domains" is a specific example of a DNS attack that Advanced DNS Security can detect and block.

* Why "High entropy DNS domains" (Correct Answer A)? High entropy DNS domains are often used in attacks where randomly generated domain names (e.g., gfh34ksdu.com) are utilized by malware or bots to evade detection. This is a hallmark of Domain Generation Algorithms (DGA)-based attacks.

Palo Alto Networks firewalls with Advanced DNS Security use machine learning to detect such domains by analyzing the entropy (randomness) of DNS queries. High entropy values indicate the likelihood of a dynamically generated or malicious domain.

* Why not "Polymorphic DNS" (Option B)? While polymorphic DNS refers to techniques that dynamically change DNS records to avoid detection, it is not specifically identified as an attack type mitigated by Advanced DNS Security in Palo Alto Networks documentation. The firewall focuses more on the behavior of DNS queries, such as detecting DGA domains or anomalous DNS traffic patterns.

* Why not "CNAME cloaking" (Option C)? CNAME cloaking involves using CNAME records to redirect DNS queries to malicious or hidden domains. Although Palo Alto firewalls may detect and block malicious DNS redirections, the focus of Advanced DNS Security is primarily on identifying patterns of DNS abuse like DGA domains, tunneling, or high entropy queries.

* Why not "DNS domain rebranding" (Option D)? DNS domain rebranding involves changing the domain names associated with malicious activity to evade detection. This is typically a tactic used for persistence but is not an example of a DNS attack type specifically addressed by Advanced DNS Security.

Advanced DNS Security focuses on dynamic, real-time identification of suspicious DNS patterns, such as high entropy domains, DNS tunneling, or protocol violations. High entropy DNS domains are directly tied to attack mechanisms like DGAs, making this the correct answer.

Reference: According to Palo Alto Networks Advanced DNS Security documentation, detecting high entropy domains is a core feature of the service, leveraging machine learning and behavioral analysis to identify and block such malicious activities.

NEW QUESTION # 20

Which two products can be integrated and managed by Strata Cloud Manager (SCM)? (Choose two)

- A. Cortex XDR
- **B. VM-Series NGFW**
- C. Prisma Cloud
- **D. Prisma SD-WAN**

Answer: B,D

Explanation:

Strata Cloud Manager (SCM) is Palo Alto Networks' centralized cloud-based management platform for managing network security solutions, including Prisma Access and Prisma SD-WAN. SCM can also integrate with VM-Series firewalls for managing virtualized NGFW deployments.

Why A (Prisma SD-WAN) Is Correct

* SCM is the management interface for Prisma SD-WAN, enabling centralized orchestration, monitoring, and configuration of SD-WAN deployments.

Why D (VM-Series NGFW) Is Correct

* SCM supports managing VM-Series NGFWs, providing centralized visibility and control for virtualized firewall deployments in cloud or on-premises environments.

Why Other Options Are Incorrect

* B (Prisma Cloud): Prisma Cloud is a separate product for securing workloads in public cloud environments. It is not managed via SCM.

* C (Cortex XDR): Cortex XDR is a platform for endpoint detection and response (EDR). It is managed through its own console, not SCM.

References:

NEW QUESTION # 21

What is the minimum configuration to stop a Cobalt Strike Malleable C2 attack inline and in real time?

- A. DNS Security, Threat Prevention, and Advanced WildFire with PAN-OS 9.x
- B. Threat Prevention and Advanced WildFire with PAN-OS 10.0
- C. Next-Generation CASB on PAN-OS 10.1
- **D. Advanced Threat Prevention and PAN-OS 10.2**

Answer: D

Explanation:

Cobalt Strike is a popular post-exploitation framework often used by attackers for Command and Control (C2) operations. Malleable C2 profiles allow attackers to modify the behavior of their C2 communication, making detection more difficult. Stopping these attacks in real time requires deep inline inspection and the ability to block zero-day and evasive threats.

* Why "Advanced Threat Prevention and PAN-OS 10.2" (Correct Answer B)? Advanced Threat Prevention (ATP) on PAN-OS 10.2 uses inline deep learning models to detect and block Cobalt Strike Malleable C2 attacks in real time. ATP is designed to prevent evasive techniques and zero-day threats, which is essential for blocking Malleable C2. PAN-OS 10.2 introduces enhanced capabilities for detecting malicious traffic patterns and inline analysis of encrypted traffic.

* ATP examines traffic behavior and signature-less threats, effectively stopping evasive C2 profiles.

* PAN-OS 10.2 includes real-time protections specifically for Malleable C2.

* Why not "Next-Generation CASB on PAN-OS 10.1" (Option A)? Next-Generation CASB (Cloud Access Security Broker) is designed to secure SaaS applications and does not provide the inline C2 protection required to stop Malleable C2 attacks. CASB is not related to Command and Control detection.

* Why not "Threat Prevention and Advanced WildFire with PAN-OS 10.0" (Option C)? Threat Prevention and Advanced WildFire are effective for detecting and preventing malware and known threats. However, they rely heavily on signatures and sandboxing for analysis, which is not sufficient for stopping real-time evasive C2 traffic. PAN-OS 10.0 lacks the advanced inline capabilities provided by ATP in PAN-OS 10.2.

* Why not "DNS Security, Threat Prevention, and Advanced WildFire with PAN-OS 9.x" (Option D)? While DNS Security and Threat Prevention are valuable for blocking malicious domains and known threats, PAN-OS 9.x does not provide the inline deep learning capabilities needed for real-time detection and prevention of Malleable C2 attacks. The absence of advanced behavioral analysis in PAN-OS 9.x makes this combination ineffective against advanced C2 attacks.

Reference: Palo Alto Networks documentation for Advanced Threat Prevention on PAN-OS 10.2 highlights its capability to block evasive C2 traffic in real time using deep learning.

NEW QUESTION # 22

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