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Palo Alto Networks Network Security Architect Sample Questions (Q51-Q56):

NEW QUESTION # 51

A global organization is modernizing its data center and private cloud infrastructure. The environment consists of:

- A Nutanix AHV cluster hosting critical east-west application workloads
- A VMware ESXi cluster with multi-socket hosts, supporting high-throughput workloads (>10 Gbps)
- A new pair of PA-5450 firewalls to secure the perimeter and handle encrypted traffic inspection at scale

- Strict performance service-level agreements (SLAs) for both north-south and east-west flows, with heavy reliance on TLS 1.3 and IPSec
- A Network Functions Virtualization (NFV) environment on KVM to provide high-performance security services to maximize packet throughput and minimize latency. The chief architect is tasked with ensuring that the firewall design avoids hypervisor contention, optimizes non-uniform memory access (NUMA) and uses hardware features for encrypted traffic.

VM-Series on Nutanix AHV - Resource Allocation

- Because the Nutanix cluster is already heavily used, the architect's main concern is preventing performance degradation of the virtual firewall. Thin provisioning or ballooning could introduce latency and unpredictability which is unacceptable for a security-sensitive workload.

VM-Series on VMware ESXi - NUMA and vCPU Placement

- In the VMware ESXi environment, the architect is deploying VM-Series for workloads pushing >10 Gbps. Assigning vCPUs across NUMA nodes or oversubscribing cores would create latency due to cross-socket memory access and scheduling delays. Similarly, dedicating logical hypethreads does not provide the deterministic data plane performance required.

Operational Integration and High Availability

- With performance guaranteed by correct hypervisor and hardware provisioning, the architect also considers high availability (HA). VM-Series pairs are deployed in active/passive HA across Nutanix and VMware clusters, while PA-5450s form the data center's north-south secure perimeter deployment. This ensures resilience without introducing unnecessary east-west inspection bottlenecks.
- The recommendation must be a scalable, high-performance firewall deployment aligned with enterprise SLAs and the CISO's encrypted traffic concerns.

Which PAN-OS feature will meet the CISO's need for north-south traffic inspection?

- A. Dual redundant, hot-swappable power supplies for HA
- B. Dedicated out-of-band management port for separating management and data traffic
- C. High-density DAC/QSFP ports for flexible network connectivity
- D. Dedicated hardware crypto engines for offloading SSL/TLS decryption and IPSec processing

Answer: D

Explanation:

Dedicated hardware crypto engines on the PA-5450 offload SSL/TLS decryption and IPSec processing from the main CPU, enabling high-performance inspection of encrypted north-south traffic. This ensures the firewall can meet strict SLAs while handling heavy TLS 1.3 and IPSec workloads efficiently.

NEW QUESTION # 52

A global manufacturing organization has a strategic plan for rapid growth through mergers and acquisitions. Several components the organization has purchased are deemed large deployments with existing IP address schemas and allocations that conflict with the parent organization. The manufacturing organization needs access to the resources before a re-IP initiative can be completed. All of the deployments include a variety of IoT devices. Leadership requires protection of vulnerable assets and identification of any known CVEs associated with the IoT devices. The governance, risk and compliance (GRC) team requires comprehensive non-repudiable logs to identify all IoT devices reporting "Critical (9 0+) CVE scores" for mandatory remediation. Throughput needs to exceed the current 1 Gbps trending rate, and with expected growth will soon scale to 5 Gbps. Segmentation is a mandatory requirement with enclaves based on region, device type, and function. Which architectural component ensures the IoT storage, integrity, and non-repudiation of this granular risk data for auditing purposes?

- A. NGFW's session table, which is encrypted with the master key
- B. GlobalProtect agent to collect device posture and to locally log all critical CVE scores
- C. Panorama log collector using its local database with a 90-day retention policy
- D. Strata Logging Service for cloud storage of the security logs and device telemetry

Answer: D

Explanation:

Strata Logging Service provides centralized, cloud-based log storage with integrity and non-repudiation guarantees, ensuring that IoT telemetry and security logs are preserved for auditing.

It scales to handle high throughput environments and supports long-term retention and analysis, which is required for tracking devices with critical CVE scores across large, distributed deployments.

NEW QUESTION # 53

A global manufacturing organization with 50,000 employees spanning 35 countries designs advanced industrial equipment and owns significant intellectual property. The organization operates in a highly competitive market where protecting trade secrets is critical to maintaining market advantage.

Over the past 18 months, the CISO discovered that employees across the organization have adopted hundreds of GenAI applications to improve productivity. Engineers use AI coding assistants to accelerate product development sales teams use AI tools to generate proposals, and customer service representatives use chatbots to draft responses. While this adoption has driven innovation, it has also created significant security risks.

A security audit reveals sensitive CAD files uploaded to image-generation services, proprietary source code shared with public coding assistants, and confidential customer information used in prompts. The audit identifies over 300 different GenAI applications in use, most of which had not been formally reviewed or approved.

The customer service department has also been developing internal AI applications, including a customer service copilot built on a cloud large language model (LLM) platform, an internal knowledge management assistant, and a code review tool. These internal applications access sensitive databases, customer records and internal APIs - creating additional security concerns about exploitation or misuse.

The organization has a distributed workforce in which 60% of employees work remotely or in hybrid arrangements, accessing corporate resources and AI applications from various locations using managed and unmanaged devices. Existing network security infrastructure lacks AI-specific security capabilities.

Organization leadership wants to enable AI-driven innovation while implementing comprehensive security controls. The CISO has been tasked with developing an organization-wide GenAI governance program that protects sensitive assets without hindering productivity. The program must address both external AI applications employees are using and internal AI applications being developed by IT.

Which architectural approach best aligns with the organization's strategic objectives to enable AI innovation and protect sensitive assets?

- A. Segment network zones within each data center to isolate AI workloads from critical IP address repositories and monitor east-west traffic
- B. Rely on existing perimeter firewalls and VPN concentrators applying standard URL filtering and data loss prevention (DLP) policies for AI traffic
- C. Deploy a cloud-delivered security platform with AI-aware controls integrated with identity and device posture
- D. Block external GenAI applications at the firewall and empower employees to use internally developed AI applications.

Answer: C

Explanation:

A cloud-delivered security platform with AI-aware controls provides centralized visibility and policy enforcement across both sanctioned and unsanctioned AI applications, regardless of user location or device. By integrating identity and device posture, it enables granular Zero Trust access, protects sensitive data from exfiltration, and secures both external and internally developed AI applications without restricting innovation.

NEW QUESTION # 54

You need to decrypt SSL traffic for inspection while ensuring compliance with privacy regulations.

What should you configure?

- A. Selective SSL decryption policies
- B. Disable inspection
- C. Decrypt all traffic
- D. No decryption

Answer: A

Explanation:

Selective SSL decryption allows inspection of relevant traffic while excluding sensitive or regulated content, ensuring compliance. Decrypting all traffic may violate privacy laws, while disabling decryption reduces visibility into encrypted threats.

NEW QUESTION # 55

An IoT sensor should be deployed in the path between the IoT device and which infrastructure component for comprehensive profiling coverage?

- A. DHCP server

- B. IoT Gateway
- C. SNMP Collector
- D. DNS server

Answer: A

Explanation:

DHCP traffic provides critical device-identifying attributes such as MAC address, hostname, vendor class identifier, and IP address assignment, which are essential for accurate IoT device profiling. Placing the IoT sensor in the path between the device and the DHCP server ensures comprehensive visibility during initial network onboarding, enabling reliable identification and classification.

NEW QUESTION # 56

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