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## Palo Alto Networks Network Security Architect Sample Questions (Q30-Q35):

### NEW QUESTION # 30

A retail organization wants to sanction the use of a particular third-party SaaS-based AI application for inventory management. This application will need network layer data access to the organization's internal supply chain database with confidential information highly secured in its own DMZ. The implementation is delayed because the CISO is concerned that the sanctioned third-party AI application could get compromised and then used to exfiltrate customer PII from the internal database. Which solution will address the CISO's concern?

- A. AI Access Security with an Enterprise DLP subscription to identify and block the PII within the traffic to and from the SaaS application
- B. Prisma AIRS with the AI agent deployed on the database server to monitor for unauthorized access attempts
- C. Prisma AIRS with AI Security content updates to inspect the model's behavior and block anomalous database queries
- D. AI Access Security with an App-ID Cloud Engine subscription to precisely identify and then block the inventory management application entirely

**Answer: A**

Explanation:

Enterprise DLP integrated with AI Access Security inspects traffic to and from the SaaS application and can detect sensitive data such as customer PII. It enforces policies to prevent exfiltration even if the application is compromised, allowing the organization to safely sanction the AI application while protecting confidential data.

### NEW QUESTION # 31

An architect is designing a security solution for a large AWS environment with numerous application virtual private clouds (VPCs). These applications have diverse and sometimes conflicting inbound security requirements, making a single, unified ruleset challenging to create and maintain. The solution must secure inbound traffic for different application groups while also centrally securing all outbound and east-west traffic via an AWS Transit Gateway. Which design model recommendation will simplify rule complexity for inbound traffic while meeting all security requirements?

- A. Combined model using dedicated inbound NGFWs for logical application groups and a central NGFW for east-west and outbound traffic
- B. Centralized model to consolidating all security functions by directing all inbound, outbound, and east-west traffic through a single, shared security VPC
- C. Isolated model deploying a separate non-connected security VPC for each application VPC
- D. Transit Gateway model focused on establishing connectivity by creating a full mesh of direct peering connections between all application VPCs

**Answer: A**

Explanation:

A combined model is designed for environments where inbound requirements differ across application groups. It uses dedicated inbound firewalls for those logical application groups, which keeps inbound policy sets simpler and easier to manage, while a central NGFW tied to the Transit Gateway secures outbound and east-west traffic centrally. Palo Alto Networks documents this combined deployment pattern specifically as using inbound security at the application VPC side and the transit gateway as the hub for east-west and outbound security.

### NEW QUESTION # 32

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.

While using the VM-Series to build the NFV environment, which configuration should the architect use?

- A. Virtio drivers and DPDK mode enabled
- B. Virtio drivers connected to an Open vSwitch (OVS) bridge
- C. SR-IOV-enabled network interfaces and DPDK mode enabled
- D. SR-IOV-enabled network interfaces and standard Linux bridge networking

**Answer: C**

#### Explanation:

For a high-performance NFV deployment on KVM, the VM-Series should use SR-IOV-enabled interfaces together with DPDK. Palo Alto Networks documents DPDK as improving packet- processing speed by bypassing the Linux kernel, and its KVM guidance explicitly calls out enabling both DPDK and SR-IOV for maximum VM-Series performance. This combination best fits the requirement to maximize throughput and minimize latency in an NFV environment.

#### NEW QUESTION # 33

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

**Answer: A**

#### 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 # 34

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.

In which two ways would Prisma AIRS secure AI agents deployed across multiple cloud platforms in this scenario? (Choose two.)

- A. By offering Network Intercept for infrastructure-level protection across any cloud platform and API Intercept for application-level security embedded directly in agent code.
- B. By providing Network Intercept inline in multicloud network architectures to monitor AI agent traffic, and API Intercept as Security as Code (SaC) to scan prompts and responses before they reach models.
- C. By supporting API Intercept for Multicloud deployments since Network Intercept cannot be deployed in the network architectures of different cloud providers.
- D. By requiring separate product installations for each cloud platform with AWS-specific agents for Bedrock and GCP-specific agents for Vertex AI that cannot share policies.

**Answer: A,B**

Explanation:

Network Intercept provides inline visibility and control of AI traffic across multicloud environments, enabling consistent infrastructure-level protection regardless of where agents are deployed. API Intercept complements this by acting at the application layer, scanning prompts and responses and embedding security controls directly into AI workflows, ensuring protection before interactions reach the model.

## NEW QUESTION # 35

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