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Palo Alto Networks NGFW-Engineer Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• PAN-OS Device Setting Configuration: This section evaluates the expertise of System Administrators in configuring device settings on PAN-OS. It includes implementing authentication roles and profiles, and configuring virtual systems with interfaces, zones, routers, and inter-VSYS security. Logging mechanisms such as Strata Logging Service and log forwarding are covered alongside software updates and certificate management for PKI integration and decryption. The section also focuses on configuring Cloud Identity Engine User-ID features and web proxy settings.

Topic 2	<ul style="list-style-type: none"> • PAN-OS Networking Configuration: This section of the exam measures the skills of Network Engineers in configuring networking components within PAN-OS. It covers interface setup across Layer 2, Layer 3, virtual wire, tunnel interfaces, and aggregate Ethernet configurations. Additionally, it includes zone creation, high availability configurations (active and active • active and active • passive), routing protocols, and GlobalProtect setup for portals, gateways, authentication, and tunneling. The section also addresses IPSec, quantum-resistant cryptography, and GRE tunnels.
Topic 3	<ul style="list-style-type: none"> • Integration and Automation: This section measures the skills of Automation Engineers in deploying and managing Palo Alto Networks NGFWs across various environments. It includes the installation of PA-Series, VM-Series, CN-Series, and Cloud NGFWs. The use of APIs for automation, integration with third-party services like Kubernetes and Terraform, centralized management with Panorama templates and device groups, as well as building custom dashboards and reports in Application Command Center (ACC) are key topics.

Palo Alto Networks Next-Generation Firewall Engineer Sample Questions (Q52-Q57):

NEW QUESTION # 52

What is a result of enabling split tunneling in the GlobalProtect portal configuration with the "Both Network Traffic and DNS" option?

- A. It allows users to access internal resources when connected locally and external resources when connected remotely using the same FQDN.
- B. It specifies when the secondary DNS server is used for resolution to allow access to specific domains that are not managed by the VPN.
- C. It allows devices on a local network to access blocked websites by changing which DNS server resolves certain domain names.
- **D. It specifies which domains are resolved by the VPN-assigned DNS servers and which domains are resolved by the local DNS servers.**

Answer: D

Explanation:

When split tunneling is enabled with the "Both Network Traffic and DNS" option in the GlobalProtect portal configuration, it allows the firewall to control which traffic is sent over the VPN tunnel and which is not. Specifically, it determines which domains are resolved by the VPN-assigned DNS servers (for domains requiring VPN access) and which are resolved by local DNS servers (for domains that can be accessed without the VPN tunnel).

NEW QUESTION # 53

A network administrator is configuring an Aggregate Ethernet (AE) interface on an active/passive high availability (HA) pair. To reduce network downtime during a failover, the administrator wants the passive firewall's AE interface to be fully negotiated with the switch before it becomes active.

Which Link Aggregation Control Protocol (LACP) setting achieves this administrator's goal?

- A. LACP Mode active
- **B. Enable in HA passive state**
- C. Transmission Rate: fast
- D. System Priority: 1

Answer: B

Explanation:

Enabling LACP in the HA passive state allows the passive firewall to negotiate and maintain the LACP session with the switch even while it is not active, so the aggregate Ethernet interface is already up and fully formed when a failover occurs, minimizing downtime.

NEW QUESTION # 54

What is a result of enabling split tunneling in the GlobalProtect portal configuration with the "Both Network Traffic and DNS" option?

- A. It allows users to access internal resources when connected locally and external resources when connected remotely using the same FQDN.
- B. It specifies when the secondary DNS server is used for resolution to allow access to specific domains that are not managed by the VPN.
- C. It allows devices on a local network to access blocked websites by changing which DNS server resolves certain domain names.
- **D. It specifies which domains are resolved by the VPN-assigned DNS servers and which domains are resolved by the local DNS servers.**

Answer: D

Explanation:

When split tunneling is enabled with the "Both Network Traffic and DNS" option in the GlobalProtect portal configuration, it allows the firewall to control which traffic is sent over the VPN tunnel and which is not.

Specifically, it determines which domains are resolved by the VPN-assigned DNS servers (for domains requiring VPN access) and which are resolved by local DNS servers (for domains that can be accessed without the VPN tunnel).

NEW QUESTION # 55

When configuring a Zone Protection profile, in which section (protection type) would an NGFW engineer configure options to protect against activities such as spoofed IP addresses and split handshake session establishment attempts?

- A. Protocol Protection
- **B. Packet-Based Attack Protection**
- C. Reconnaissance Protection
- D. Flood Protection

Answer: B

Explanation:

Packet-Based Attack Protection examines IP, TCP, ICMP, IPv6, and ICMPv6 packet headers to drop packets with undesirable characteristics like IP spoofing or malformed TCP options that enable split handshakes.

NEW QUESTION # 56

An organization needs a GlobalProtect solution that meets two key requirements:

- IT administrators must be able to run scripts and push updates to endpoints before a user logs in.

- Users must authenticate with their cloud identity provider, which is protected by multi-factor authentication (MFA).

Which GlobalProtect authentication configuration should be used to meet both requirements?

- **A. Certificate-based authentication for pre-logon and SAML authentication for user logon.**
- B. Cookie-based authentication for both pre-logon and user logon.
- C. Single authentication profile using Kerberos to handle both pre-logon and user logon.
- D. SAML authentication for pre-logon and certificate-based authentication for user logon.

Answer: A

Explanation:

Pre-logon requires certificate-based authentication so the device can establish the tunnel before user login, enabling IT administrators to run scripts and push updates at the machine level. User logon must use SAML authentication to integrate with the cloud identity provider and enforce MFA for user authentication.

NEW QUESTION # 57

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