

# 高水平的NGFW-Engineer認證指南，最新的考試指南幫助妳輕鬆通過NGFW-Engineer考試

Your Guide to the Palo Alto Networks Next-Generation  
Firewall Engineer Certification: Skills, Scope, and Success



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## Palo Alto Networks NGFW-Engineer 考試大綱：

主題	簡介
主題 1	<ul style="list-style-type: none"><li>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.</li></ul>
主題 2	<ul style="list-style-type: none"><li>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</li><li>active and active</li><li>passive), routing protocols, and GlobalProtect setup for portals, gateways, authentication, and tunneling. The section also addresses IPsec, quantum-resistant cryptography, and GRE tunnels.</li></ul>
主題 3	<ul style="list-style-type: none"><li>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.</li></ul>

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## 最新的 Network Security Administrator NGFW-Engineer 免費考試真題 (Q50-Q55):

### 問題 #50

An NGFW engineer is configuring multiple Panorama-managed firewalls to start sending all logs to Strata Logging Service. The Strata Logging Service instance has been provisioned, the required device certificates have been installed, and Panorama and the firewalls have been successfully onboarded to Strata Logging Service.

Which configuration task must be performed to start sending the logs to Strata Logging Service and continue forwarding them to the Panorama log collectors as well?

- A. Modify all active Log Forwarding profiles to select the "Cloud Logging" option in each profile match list in the appropriate device groups.
- **B. Select the "Enable Cloud Logging" option in the Cloud Logging section under Device --> Setup --> Management in the appropriate templates.**
- C. Enable the "Panorama/Cloud Logging" option in the Logging and Reporting Settings section under Device --> Setup --> Management in the appropriate templates.
- D. Select the "Enable Duplicate Logging" option in the Cloud Logging section under Device --> Setup --> Management in the appropriate templates.

答案：B

### 解題說明：

To begin sending logs to Strata Logging Service while continuing to forward them to Panorama log collectors, the necessary configuration is to enable Cloud Logging. This option is configured in the Cloud Logging section under Device # Setup # Management in the appropriate templates. Once enabled, this ensures that logs are directed both to the Strata Logging Service (cloud) and to the Panorama log collectors.

### 問題 #51

Which two statements apply to configuring required security rules when setting up an IPSec tunnel between a Palo Alto Networks firewall and a third- party gateway? (Choose two.)

- **A. The IKE negotiation and IPSec/ESP packets are allowed by default via the intrazone default allow policy.**
- B. The IKE negotiation and IPSec/ESP packets are denied by default via the interzone default deny policy.
- C. For incoming and outgoing traffic through the tunnel, separate rules must be created for each direction.
- **D. For incoming and outgoing traffic through the tunnel, creating separate rules for each direction is optional.**

答案：A,D

### 解題說明：

In the Palo Alto Networks architecture, establishing a site-to-site VPN requires a clear understanding of how the Security Policy engine interacts with different traffic flows. According to technical documentation (Step 7 of the IPSec configuration guide), there are two distinct categories of traffic to consider: theControl Plane (negotiation) and theData Plane(transit).

First, the IKE negotiation (UDP 500/4500) and IPSec/ESP packets are directed at the firewall's own external interface. Because the peer gateway is usually reachable through the same zone as that interface (e.g.,

'Untrust'), the traffic is processed asintrazone. By default, PAN-OS includes anintrazone-defaultsecurity policy set to 'Allow'. Consequently, the tunnel can technically establish without an explicit rule, provided no manual 'Deny All' rule precedes it. This confirms that negotiation is allowed by default via the intrazone policy.

Second, regarding the data traffic entering or exiting the tunnel interface, the firewall applies standard zone- based inspection. While the firewall is stateful and policies are unidirectional, the documentation specifies that creating separate rules for each direction (one for inbound and one for outbound) isoptional. An administrator can choose to create two granular rules for tighter control or combine both directions into a single rule by adding both the internal and tunnel zones to the source and destination fields. This flexibility allows for a more streamlined rulebase while still meeting security requirements.

### 問題 #52

An administrator is designing a public key infrastructure (PKI) integration for a large-scale deployment with thousands of users authenticating via client certificates. A key design goal is to ensure that certificate revocation status is checked efficiently with minimal impact on firewall performance and minimal delay for the connecting user.

What is the primary advantage of using the Online Certificate Status Protocol (OCSP) instead of certificate revocation lists (CRLs) in this scenario?

- A. OCSP provides real-time status for a certificate on demand, is more scalable, and uses less firewall memory.
- B. OCSP is an older, more widely supported protocol than CRLs, ensuring compatibility with all client devices.
- C. OCSP allows the firewall to act as its own certificate authority (CA), and it simplifies certificate management.
- D. OCSP bundles all certificate statuses into a single, digitally signed file for faster downloads by the firewall.

答案: A

解題說明:

OCSP enables on-demand, real-time validation of individual certificate status instead of downloading and storing large revocation lists, which makes it more scalable for large user populations, reduces memory and processing load on the firewall, and minimizes authentication delay for users.

### 問題 #53

An engineer is implementing a new rollout of SAML for administrator authentication across a company's Palo Alto Networks NGFWs. User authentication on company firewalls is currently performed with RADIUS, which will remain available for six months, until it is decommissioned. The company wants both authentication types to be running in parallel during the transition to SAML. Which two actions meet the criteria? (Choose two.)

- A. Create an authentication sequence that includes both the "RADIUS" Server Profile and "SAML Identity Provider" Server Profile to run the two services in tandem.
- B. Create and apply an authentication profile with the "SAML Identity Provider" Server Profile.
- C. Create a testing and rollback plan for the transition from Radius to SAML, as the two authentication profiles cannot be run in tandem.
- D. Create and add the "SAML Identity Provider" Server Profile to the authentication profile for the "RADIUS" Server Profile.

答案: A,D

解題說明:

To enable both RADIUS and SAML authentication to run in parallel during the transition period, you need to configure an authentication sequence and an authentication profile that includes both authentication methods.

By creating an authentication sequence that includes both RADIUS and SAML server profiles, the firewall will attempt authentication with RADIUS first and, if that fails, will fall back to SAML. This enables both authentication types to function simultaneously during the transition period.

You can also configure an authentication profile that includes both the RADIUS Server Profile and the SAML Identity Provider server profile. This setup allows the firewall to use both RADIUS and SAML for authentication requests, and it will check both authentication methods in parallel.

### 問題 #54

What is a valid configurable limit for setting resource quotas when defining a new VSYS on a Palo Alto Networks firewall?

- A. Disk space allocation for logs
- B. Maximum number of virtual routers
- C. Maximum number of SSL decryption rules
- D. Percentage of total CPU utilization

答案: C

解題說明:

When defining a new VSYS, PAN-OS allows administrators to set explicit resource quotas on policy-related objects, including limits on rule capacities, which can include SSL decryption rules as part of security policy resources, enabling controlled allocation of configuration and processing capacity per VSYS.

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