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#### Fortinet FCSS EFW AD-7.6 Exam Syllabus Topics:

Topic	Details
Торіс 1	Routing: This section of the exam measures the skills of a Network Infrastructure Engineer and covers the implementation of dynamic routing protocols for enterprise network traffic management. It includes configuring both OSPF and BGP routing protocols to ensure efficient and reliable data transmission across complex organizational networks.
Торіс 2	VPN: This section of the exam measures the skills of a VPN Solutions Engineer and covers the implementation of various virtual private network technologies. It includes configuring IPsec VPN using IKE version 2 protocols and implementing Automatic Discovery VPN solutions to establish on-demand secure tunnels between multiple sites within an enterprise network infrastructure.
Topic 3	Central Management: This section of the exam measures the skills of a Security Operations Manager and covers the implementation of centralized management systems for coordinated control and oversight of distributed Fortinet security infrastructures across enterprise environments.

Topic 4	System Configuration: This section of the exam measures the skills of a Network Security Architect and covers the implementation and integration of core Fortinet infrastructure components. It includes deploying the Security Fabric, enabling hardware acceleration, configuring high availability operational modes, and designing enterprise networks utilizing VLANs and VDOM technologies to meet specific organizational requirements.
Topic 5	<ul> <li>Security Profiles: This section of the exam measures the skills of a Threat Prevention Specialist and covers the configuration and management of comprehensive security profiling systems. It includes implementing SSL</li> <li>SSH inspection, combining web filtering and application control mechanisms, integrating intrusion prevention systems, and utilizing the Internet Service Database to create layered security protections for organizational networks.</li> </ul>

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### Fortinet FCSS - Enterprise Firewall 7.6 Administrator Sample Questions (Q14-Q19):

#### **NEW QUESTION #14**

Which two statements about IKEv2 are true if an administrator decides to implement IKEv2 in the VPN topology? (Choose two.)

- A. It includes stronger Diffie-Hellman (DH) groups, such as Elliptic Curve (ECP) groups.
- B. It exchanges a minimum of two messages to establish a secure tunnel.
- C. It supports interoperability with devices using IKEv1.
- D. It supports the extensible authentication protocol (EAP).

#### Answer: A.D

#### Explanation:

IKEv2 (Internet Key Exchange version 2) is an improvement over IKEv1, offering enhanced security, efficiency, and flexibility in VPN configurations.

It includes stronger Diffie-Hellman (DH) groups, such as Elliptic Curve (ECP) groups.

IKEv2 supports stronger cryptographic algorithms, including Elliptic Curve Diffie-Hellman (ECDH) groups such as ECP256 and ECP384, providing improved security compared to IKEv1.

It supports the extensible authentication protocol (EAP).

IKEv2 natively supports EAP authentication, which allows integration with external authentication mechanisms such as RADIUS, certificates, and smart cards. This is particularly useful for remote access VPNs where user authentication must be flexible and secure.

#### **NEW QUESTION #15**

How will configuring set tcp-mss-sender and set tcp-mss-receiver in a firewall policy affect the size and handling of TCP packets in the network?

- A. Applying commands in a firewall policy determines the largest payload a device can handle in a single TCP segment.
- B. The maximum segment size permitted in the firewall policy determines whether TCP packets are allowed or denied.
- C. The TCP packet modifies the packet size only if the size of the packet is less than the one the administrator configured in

the firewall policy.

• D. The administrator must consider the payload size of the packet and the size of the IP header to configure a correct value in the firewall policy.

#### Answer: A

#### Explanation:

The set tcp-mss-sender and set tcp-mss-receiver commands in a firewall policy allow an administrator to adjust the Maximum Segment Size (MSS) of TCP packets.

This setting controls the largest payload size that a device can handle in a single TCP segment, ensuring that packets do not exceed the allowed MTU (Maximum Transmission Unit) along the network path.

# set tcp-mss-sender adjusts the MSS value for outgoing TCP traffic.

# set tcp-mss-receiver adjusts the MSS value for incoming TCP traffic.

This helps prevent issues with fragmentation and MTU mismatches, improving network performance and avoiding retransmissions.

#### **NEW QUESTION #16**

An administrator must minimize CPU and RAM use on a FortiGate firewall while also enabling essential security features, such as web filtering and application control for HTTPS traffic.

Which SSL inspection setting helps reduce system load while also enabling security features, such as web filtering and application control for encrypted HTTPS traffic?

- A. Use full SSL inspection to thoroughly inspect encrypted payloads.
- B. Enable SSL certificate inspection mode to perform basic checks without decrypting traffic.
- C. Configure SSL inspection to handle HTTPS traffic efficiently.
- D. Disable SSL inspection entirely to conserve resources.

#### Answer: B

#### Explanation:

To minimize CPU and RAM usage while still enforcing security features like web filtering and application control, SSL certificate inspection mode is the best choice.

# SSL certificate inspection allows FortiGate to inspect only the SSL/TLS handshake, including the Server Name Indication (SNI) and certificate details, without decrypting the full encrypted payload.

# This enables features like web filtering and application control because FortiGate can determine the destination website or application based on SNI and certificate information.

# It significantly reduces system load compared to full SSL inspection, which requires full decryption and re-encryption of traffic.

#### **NEW QUESTION #17**

An administrator is setting up an ADVPN configuration and wants to ensure that peer IDs are not exposed during VPN establishment.

Which protocol can the administrator use to enhance security?

- A. Choose IKEv1 aggressive mode because it simplifies peer identification.
- B. Stick with IKEv1 main mode because it offers better performance.
- C. Use IKEv2, which encrypts peer IDs and prevents exposure.
- D. Opt for SSL VPN web mode because it does not use peer IDs at all.

#### Answer: C

#### Explanation:

In ADVPN (Auto-Discovery VPN) configurations, security concerns include protecting peer IDs during VPN establishment. Peer IDs are exchanged in the IKE (Internet Key Exchange) negotiation phase, and their exposure could lead to privacy risks or targeted attacks.

# IKEv2 encrypts peer IDs, making it more secure compared to IKEv1, where peer IDs can be exposed in plaintext in aggressive mode.

# IKEv2 also provides better performance and flexibility while supporting dynamic tunnel establishment in ADVPN.

What is the initial step performed by FortiGate when handling the first packets of a session?

- A. Security inspections such as ACL, HPE, and IP integrity header checking
- B. Data encryption and decryption
- C. Installation of the session key in the network processor (NP)
- D. Offloading the packets directly to the content processor (CP)

#### Answer: A

#### Explanation:

When FortiGate processes the first packets of a session, it follows a sequence of steps to determine how the traffic should be handled before establishing a session. The initial step involves:

# Access Control List (ACL) checks: Determines if the traffic should be allowed or blocked based on predefined security rules.

- # Hardware Packet Engine (HPE) inspections: Ensures that packet headers are valid and comply with protocol standards.
- # IP Integrity Header Checking: Verifies if the IP headers are intact and not malformed or spoofed.

Once these security inspections are completed and the session is validated, FortiGate then installs the session in hardware (if offloading is enabled) or processes it in software.

#### **NEW QUESTION #19**

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