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Fortinet FCSS EFW AD-7.6 Exam Syllabus Topics:

 Security Profiles: This section of the exam measures the skills of a Threat Prevention Specialis the configuration and management of comprehensive security profiling systems. It includes imp SSL SSH inspection, combining web filtering and application control mechanisms, integrating intrus prevention systems, and utilizing the Internet Service Database to create layered security proteorganizational networks. Central Management: This section of the exam measures the skills of a Security Operations M 	olementing tion
Central Management: This section of the exam measures the skills of a Security Operations M	ections for
Topic 2 Covers the implementation of centralized management systems for coordinated control and own distributed Fortinet security infrastructures across enterprise environments.	_

Topic 3	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 4	 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.
Topic 5	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.

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

NEW QUESTION #14

Refer to the exhibit, which shows a partial troubleshooting command output.

FortiGate # diagnose vpn tunnel list name Hub2\$poke1
list ipsec tunnel by names in vd 0
...
npu_flag=20 npu_rgwy=10.10.2.2 npu_lgwy=10.10.1.1 npu_selid=1

An administrator is extensively using IPsec on FortiGate. Many tunnels show information similar to the output shown in the exhibit. What can the administrator conclude?

- A. Only the outbound IPsec SA is copied to the NPU.
- B. IPsec SAs cannot be offloaded.
- C. Only the inbound IPsec SA is copied to the NPU.
- D. The two IPsec SAs, inbound and outbound, are copied to the NPU.

Answer: D

Explanation:

The diagnose vpn tunnel list name Hub2Spoke1 command output provides key information about the offloading status of an IPsec VPN tunnel to the Network Processing Unit (NPU).

npu flag=20:

This flag indicates that both inbound and outbound IPsec Security Associations (SAs) have been offloaded to the NPU, meaning the VPN traffic is processed in hardware instead of the CPU.

npu rgwy=10.10.2.2 and npu lgwy=10.10.1.1:

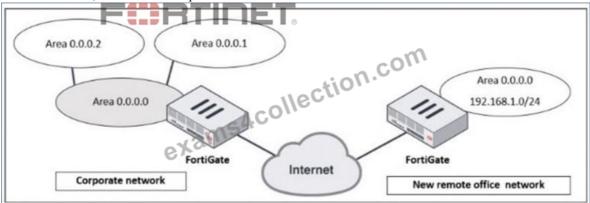
These IPs represent the remote gateway (rgwy) and local gateway (lgwy), confirming that the tunnel is successfully offloaded. # npu selid=1:

This value means the session selector for the NPU offloaded SA is active.

Since both inbound and outbound SAs are offloaded, the administrator can conclude that the FortiGate NPU is handling IPsec encryption and decryption efficiently, reducing CPU load and improving VPN performance.

NEW QUESTION #15

Refer to the exhibit, which shows a corporate network and a new remote office network.



An administrator must integrate the new remote office network with the corporate enterprise network.

What must the administrator do to allow routing between the two networks?

- A. The administrator must configure a static route to the subnet 192.168.10/24 on the corporate FortiGate device.
- B. The administrator must implement BGP to inject the new remote office network into the corporate FortiGate device
- C. The administrator must implement OSPF over IPsec on both FortiGate devices.
- D. The administrator must configure virtual links on both FortiGate devices.

Answer: C

Explanation:

In this scenario, the corporate network and the new remote office network need to communicate over the Internet, which requires a secure and dynamic routing method. Since both networks are using OSPF (Open Shortest Path First) as the routing protocol, the best approach is to establish an OSPF over IPsec VPN to ensure secure and dynamic route propagation.

OSPF is already running on the corporate network, and extending it over an IPsec tunnel allows dynamic route exchange between the corporate FortiGate and the remote office FortiGate. IPsec provides encryption for traffic over the Internet, ensuring secure communication. OSPF over IPsec eliminates the need for manual static routes, allowing automatic route updates if networks change. The new remote office's 192.168.1.0/24 subnet will be advertised dynamically to the corporate network without additional configuration.

NEW QUESTION #16

Refer to the exhibit, which shows the packet capture output of a three-way handshake between FortiGate and FortiManager Cloud.

Packet capture output of three-way handshake between a FortiGate and a FortiManager Cloud

```
> Frame 35: 1034 bytes on wire (8272 bits), 1034 bytes captured (8272 bits) on interface -, id 0
> Ethernet II, Src: 50:e5:d5: (50:e5:d5: ), Dst: Fortinet_
                                                                              (e0:23:ff:
                                                                                                 )
> Internet Protocol Version 4, Src: 192.168.2.60, Dst: 154.52.4.164
> Transmission Control Protocol, Src Port: 16304, Dst Port: 541, Seq: 1, Ack: 1, Len: 980
Y Transport Layer Security

▼ TLSv1.3 Record Layer: Handshake Protocol: Client Hello

       Content Type: Handshake (22)
       Version: TLS 1.0 (0x0301)
       Length: 975
     Y Handshake Protocol: Client Hello
                                         ollection.com
          Handshake Type: Client Hello (1)
  Versions TLS 1.2 (0x0303)
          Random: a14f6c4b8f9313bf
          Session ID Length: 32
          Session ID: a0de426e96e83a5
          Cipher Suites Length: 34
        > Cipher Suites (17 suites)
          Compression Methods Length: 1
        > Compression Methods (1 method)
          Extensions Length: 864

✓ Extension: server name (len-45) name=9398.support.fortinet-ca2.fortinet.com
            Type: server name (0)
             Length: 45
          Y Server Name Indication extension
               Server Name list length: 43
               Server Name Type: host_name (0)
               Server Name length: 48
                Server Name: 9398.support.fortinet-ca2.fortinet.com
        > Extension: ec_point_formats (len=4)
        > Extension: supported_groups (len=22)
        > Extension: session_ticket (len=0)
        > Extension: encrypt_then_mac (len=0)
        > Extension: extended_master_secret (len=0)
        > Extension: signature algorithms (len-48)
        > Extension: supported_versions (len=9) TLS 1.3, TLS 1.2, TLS 1.1, TLS 1.0
        > Extension: psk_key_exchange_modes (len=2)
```

What two conclusions can you draw from the exhibit? (Choose two.)

- A. The wildcard for the domain *.fortinet-ca2.support.fortinet.com must be supported by FortiManager Cloud.
- B. FortiGate is connecting to the same IP server and will receive an independent certificate for its connection between FortiGate and FortiManager Cloud.
- C. FortiGate will receive a certificate that supports multiple domains because FortiManager operates in a cloud computing
 environment.
- D. If the TLS handshake contains 17 cipher suites it means the TLS version must be 1.0 on this three-way handshake.

Answer: A

Explanation:

The packet capture output displays a TLS Client Hello message from FortiGate to FortiManager Cloud. This message contains Server Name Indication (SNI), which is used to indicate the domain name that FortiGate is trying to connect to.

FortiGate will receive a certificate that supports multiple domains because FortiManager operates in a cloud computing environment. # FortiManager Cloud hosts multiple customers and domains under a shared infrastructure.

- # The TLS handshake includes SNI (Server Name Indication), which allows FortiManager Cloud to serve multiple certificates based on the requested domain.
- # This means FortiGate will likely receive a multi-domain or wildcard certificate that can be used for multiple customers under FortiManager Cloud.

The wildcard for the domain .fortinet-ca2.support.fortinet.com must be supported by FortiManager Cloud.

- # The SNI extension contains the domain 9398.support.fortinet-ca2.fortinet.com
- # FortiManager Cloud must support wildcard certificates such as *.fortinet-ca2.support.fortinet.com to securely manage multiple subdomains and customers.
- # This ensures that FortiGate can validate the server certificate without any TLS errors.

NEW QUESTION #17

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. 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.
- B. Applying commands in a firewall policy determines the largest payload a device can handle in a single TCP segment.
- 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 maximum segment size permitted in the firewall policy determines whether TCP packets are allowed or denied.

Answer: B

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 OUESTION #18

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

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

Answer: B,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 #19

.....

When you are studying for the FCSS_EFW_AD-7.6 exam, maybe you are busy to go to work, for your family and so on. How to cost the less time to reach the goal? It's a critical question for you. Time is precious for everyone to do the efficient job. If you want to get good FCSS_EFW_AD-7.6 prep guide, it must be spending less time to pass it. Exactly, our product is elaborately composed with major questions and answers. If your privacy let out from us, we believe you won't believe us at all. That's uneconomical for us. In the website security, we are doing well not only in the purchase environment but also the FCSS_EFW_AD-7.6 Exam Torrent customers' privacy protection. We are seeking the long development for FCSS_EFW_AD-7.6 prep guide.

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