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Section	Objectives
Topic 1: VPN and Secure Connectivity	- IPsec VPN configuration and troubleshooting - SSL VPN deployment
Topic 2: Routing, Switching, and High Availability	- Static and dynamic routing fundamentals - HA cluster configuration and failover
Topic 3: Threat Protection and Security Services	- Application control and security profiles - IPS, antivirus, and web filtering
Topic 4: Troubleshooting and Diagnostics	- Traffic debugging tools and logs - Performance and connectivity troubleshooting
Topic 5: Firewall Policies and Traffic Management	- NAT and traffic inspection flow - Policy configuration and rule processing
Topic 6: Network Security Fundamentals and FortiGate Architecture	- Security fabric concepts and integration - FortiGate system architecture and components

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Fortinet FCSS - Network Security 7.6 Support Engineer Sample Questions (Q120-Q125):

NEW QUESTION # 120

Refer to the exhibit, which contains the output of diagnose vpn tunnel list.

```
diagnose vpn tunnel list
name=DialUp 0 ver=1 serial=4 10.200.1.1:4500->10.200.3.2:64916 tun_id=10.200.3.2 dst_mtu=1500 dpd-link-on remote_location=0.0.0.0 weight=1
bound_if=3 lgwy-static/1 tun=ntf/0 mode=dial_inst/3 encap=none/896 options[0380]=rgwy-chg rport=0 flag-rfc run_state=0 accept_traffic=1 overlay_id=0
parent=DialUp index=0
proxyid num=1 child num=0 refcnt=5 ilast=0 olast=0 ad=0
stat: rxp=221 txp=0 rxb=35360 txb=0
dpd: mode=active on=1 idle=5000ms retry=3 count=0 seqno=70
nat: mode=silent draft=32 interval=10 remote_port=64916
proxyid=DialUp proto=0 sa=1 ref=2 serial=3 add-route
dst: 0:0.0.0.0-255.255.255.255:0
src: 0:10.0.10.10-10.0.10.10:0
SA: ref=3 options=82 type=00 soft=0 mtu=1422 expire=43065/0B replaywin=2048
seqno=1 esn=0 replaywin_lastseq=00000079 itn=0 qat=0 hash_search_len=1
life: type=01 bytes=0/0 timeout=43188/43200
dec: spi=5ed4aafc esp=aes key=16 054852d43abb0e931641b4e8818d9cc
ah=sha1 key=20 082eafd018bf7d4d7b65d9c5b7448db5cc1f181a
enc: spi=69d4231e esp=aes key=16 d5a23d09ab4128d094a5971f511f9db
ah=sha1 key=20 54eac30e29ce711d2ceaab9b5e179c20ba33605e
dec:pkts/bytes=120/10080, enc:pkts/bytes=0/0
```

Which command will capture ESP traffic for the VPN named DialUp_0?

- A. diagnose sniffer packet any 'host 10.0.10.10'
- B. diagnose sniffer packet any 'ip proto 50'
- C. diagnose sniffer packet any 'port 4500'
- D. diagnose sniffer packet any 'esp and host 10.200.3.2'

Answer: C

NEW QUESTION # 121

Refer to the exhibit, which shows the port1 interface configuration on FortiGate and partial session information for ICMP traffic.

```
config system interface
edit "port1"
set preserve-session-route enable
next
end

# diagnose sys session list
session info: proto=1 proto_state=00 duration=4 expire=55 timeout=0 refresh_dir=both flags=00000000 socktype=0 sockport=0 av_idx=0 use=3
state=log may_dirty npu 100 route_preserve
origin=>sink: csg pre->post, reply pre->post dev=7->19/19->7 gw=100.64.1.1/10.0.1.101

# diagnose netlink interface list | grep index=19
if=port1 family=00 type=768 index=19 mtu=1420 link=0 master=0
```

What happens to the session information if a routing change occurs that affects this session?

- A. Sessions involving port7 or port19 will not have their routing information flushed.
- B. The session will be flagged as dirty but no route lookups will be performed.
- C. Only the interface and gateway information for dev=7 will be removed.
- D. The session information will not change unless the current route has been removed from the routing table.

Answer: D

NEW QUESTION # 122

Exhibit.

```

session info: proto=6 proto_state=01 duration=157 expire=3559 timeout=3600 flags=00000000 socktype=0 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
user=User1 state=log may_dirty authed #00 acct-ext
statistics(bytes/packets/allow_err): org=2137/14/1 reply=1663/12/1 tx_plus=
tx speed(bps/kbps): 1/0 rx speed(bps/kbps): 1/0
origin=Sink; org pre->post, reply pre->post dev=5->3/3->5 gw=0.0.0.0/254/10.1.10.1
hook-pre dir=org act=noop 10.1.10.1:34830->35.241.9.150:443(0.0.0.0:0)
hook-post dir=reply act=noop 35.241.9.150:443->10.1.10.1:4818(0.0.0.0:0)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 pol_uid idx=14735 auth_info=2 client_info=0 vd=0
serial=0000352e tos=ff/ff app_list=0 app=0 url_cat=
rpdh link_id=00000000 ngfwid=n/anpu_state=0x000000
no_ofld_reason: npu-flag-off

```

Refer to the exhibit, which shows the output of a session. Which two statements are true? (Choose two.)

- A. The session is being inspected using flow inspection.
- **B. The TCP session has been successfully established.**
- C. The session is being offloaded.
- **D. The session was initiated from an authenticated user.**

Answer: B,D

NEW QUESTION # 123

Which two actions does FortiGate take after an administrator enables the auxiliary session setting? (Choose two.)

- A. FortiGate creates a new auxiliary session for each packet it receives.
- **B. FortiGate accelerates all ECMP traffic to the NP6 processor**
- **C. FortiGate creates two sessions in case of a routing change.**
- D. FortiGate only offloads auxiliary sessions.

Answer: B,C

Explanation:

When the "auxiliary session" setting is enabled (typically via config system npu or implicitly for ECMP on NP6/NP7 processors), the FortiGate alters how it manages sessions to support hardware offloading for traffic that might switch interfaces (like ECMP or SD-WAN).

* B. FortiGate accelerates all ECMP traffic to the NP6 processor:

* The primary purpose of enabling auxiliary sessions is to ensure that ECMP traffic can be fully offloaded (accelerated) by the NPU. Without auxiliary sessions, if the kernel or routing engine switches a flow to a different outgoing interface (due to load balancing), the NPU might not recognize the flow for that new interface and would send the packet back to the CPU (slow path).

Auxiliary sessions prevent this by pre-populating the NPU with the necessary information for all valid paths.

* D. FortiGate creates two sessions in case of a routing change:

* Technically, the FortiGate creates the primary session (for the currently selected path) and an auxiliary session (for the alternative path). In a standard two-path ECMP scenario, this results in

"two sessions" existing in the session table for the same flow. This ensures that if a routing change occurs (e.g., the flow shifts to the second path), the traffic continues to be processed by the NPU without interruption or re-evaluation by the CPU.

NEW QUESTION # 124

Refer to the exhibit.

```

id=65308 trace_id=81 func=print_out_detail line=5998 msg="vd root:0 received a packet(proto=6, 10.0.11.50:37560->149.112.122.10:443)
tun_id=0.0.0 from port4. flag [S], seq 3016333384, ack 0, win 63244"
id=65308 trace_id=81 func=init_ip_session_common line=6198 msg="allocate a new session-00000e9f"
id=65308 trace_id=81 func=_vf_ip_route_input_rcu line=2116 msg="find a route: flag=00000000 gw=100.65.0.254 via port2"
id=65308 trace_id=81 func=_iproute_trace_check line=535 msg="gnun-100204, use addr/intf hash, len=2"
id=65308 trace_id=81 func=iproute_new_addr line=1303 msg="find SNAT: IP=100.65.0.101(from IPPOOL), port=37560"
id=65308 trace_id=81 func=iproute_forward_handler line=1007 msg="Allowed by Policy-1: AV SNAT"
id=65308 trace_id=81 func=ip_session_confirm_final line=3203 msg="npu_state=0x100, hook=4"
id=65308 trace_id=81 func=av_receive line=482 msg="send to application layer"

```

Which two observations can you make about the web filter traffic captured using the flow tool? (Choose two.)

- A. The session is offloaded to the NPU.
- B. The HTTPS port is mapped to 443 in the SSL/SSH Inspection Profile
- **C. The web filter profile is configured with proxy-based inspection mode.**
- **D. The firewall policy is configured with proxy-based inspection mode.**

Answer: C,D

Explanation:

Analyze the "Send to Application Layer" Message:

The most critical line in the debug output is: id=65308 ... func=av_receive ... msg= "send to application layer"

"

Meaning: This message indicates that the FortiGate kernel is handing the packet over to a user-space daemon (specifically the WAD/Proxy process, indicated by av_receive handlers) for deep inspection.

Implication: This behavior is the hallmark of Proxy-based inspection. In Flow-based inspection, the traffic is handled by the IPS engine (often within the kernel or via specific IPS handlers like ips_measure), and you would not typically see a "send to application layer" message for standard web filtering.

Evaluate Option B (Firewall Policy Mode):

Since the traffic is being sent to the application layer proxy, the Firewall Policy controlling this traffic (Policy ID 1, as seen in Allowed by Policy-1) must be configured with Inspection Mode = Proxy. If it were Flow-based, the traffic would stay in the flow path. Thus, Option B is correct.

Evaluate Option C (Web Filter Profile Mode):

In FortiOS, when a firewall policy is set to Proxy-based inspection, the security profiles (like Web Filter) applied to that policy also operate in Proxy-based inspection mode. The presence of the av_receive function confirms that the content inspection (Web Filter/AV) is being performed by the proxy engine. Thus, Option C is correct.

Why Option A is Incorrect (NPU Offload):

The output shows npu_state=0x100. In the context of a flow trace where traffic is being "sent to application layer," this confirms the session is not fully offloaded to the NPU (Network Processor). Offloaded traffic (Fast Path) is handled by the hardware and would not generate these specific CPU-level debug logs for the payload inspection phase. The proxying process requires CPU intervention.

Why Option D is Incorrect (Port Mapping):

While valid protocol mapping is necessary for inspection, the specific debug output shown is a direct result of the Inspection Mode (Proxy vs. Flow). The observation of the traffic moving to the application layer is primarily caused by the policy and profile mode settings, making B and C the direct "observations" derived from the log data.

Reference:

FortiGate Troubleshooting (Debug Flow): "If the debug flow shows msg= 'send to application layer', it confirms the traffic is being handled by the proxy (WAD) for Proxy-based inspection."

NEW QUESTION # 125

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