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Fortinet FCSS_NST_SE-7.6 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <ul style="list-style-type: none">Routing: This section focuses on Network Engineers and involves tackling issues related to packet routing using static routes, as well as OSPF and BGP protocols to support enterprise network traffic flow. |

| | |
|---------|---|
| Topic 2 | <ul style="list-style-type: none"> System troubleshooting: This section of the exam measures the skills of Network Security Support Engineers and addresses diagnosing and correcting issues within Security Fabric setups, automation stitches, resource utilization, general connectivity, and different operation modes in FortiGate HA clusters. Candidates work with built-in tools to effectively find and resolve faults. |
| Topic 3 | <ul style="list-style-type: none"> VPN: This section is aimed at IT Professionals and includes diagnosing and addressing issues with IPsec VPNs, specifically IKE version 1 and 2, to secure remote and site-to-site connections within the network infrastructure. |
| Topic 4 | <ul style="list-style-type: none"> Security profiles: This part measures skills of Security Operations Specialists and covers identifying and resolving problems linked to FortiGuard services, web filtering configurations, and intrusion prevention systems to maintain protection across network environments. |
| Topic 5 | <ul style="list-style-type: none"> Authentication: This section evaluates the abilities of System Administrators and requires troubleshooting both local and remote authentication methods, including resolving Fortinet Single Sign-On (FSSO) problems for secure network access. |

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Fortinet FCSS - Network Security 7.6 Support Engineer Sample Questions (Q17-Q22):

NEW QUESTION # 17

Refer to the exhibit.

Partial output of diagnose sys session stat command is shown.

```
# diagnose sys session stat
misc info:      session_count=325683 setup_rate=0 exp_count=0 reflect_count=0
clash=0 memory_tension_drop=4 ephemeral=196608/196608 removeable=0 extreme_low_mem=0
              npu_session_count=761 nturbo_session_count=0
delete=0, flush=787, dev_down=16/120 ses_walkers=0
TCP sessions:
  80351 in ESTABLISHED state
   232  in CLOSE_WAIT state
```

An administrator has noticed unusual behavior from FortiGate. It appears that sessions are randomly removed. Which two reasons could explain this? (Choose two.)

- A. FortiGate is not accepting sessions because the device has been down 10 out of 120 seconds.
- B. FortiGate is flushing sessions because of high memory usage.
- C. FortiGate is deleting sessions because the kernel cannot allocate more memory pages
- D. FortiGate is dropping all TCP sessions with incomplete three-way handshakes.

Answer: B,C

Explanation:

To determine why sessions are being removed, we must interpret the specific counters in the diagnose sys session stat output provided in the exhibit.

* Analyze memory_tension_drop (Reason A):

* Observation: The output shows memory_tension_drop=4.

* Explanation: This counter specifically increments when the FortiGate kernel attempts to allocate a new memory page for a session

but fails due to a lack of available system memory. As a result, the session creation is aborted or an existing session is dropped to free up resources. This confirms that the kernel is struggling to allocate memory pages.

* Analyze extreme_low_mem (Reason D):

* Observation: The output shows extreme_low_mem=0 (which is good), but we must look at the context of memory_tension_drop.

* Context: While the extreme_low_mem counter itself is 0 in this snapshot, the presence of memory_tension_drop indicates the system is under memory pressure. Furthermore, in many Fortinet exam contexts involving this specific exhibit, the focus is on the mechanism of "flushing sessions" to recover memory.

* Refinement: Actually, look closer at the exhibit. It shows flush=787.

* Explanation: The flush counter indicates the number of times the system has actively purged (flushed) old or stale sessions from the table to recover memory or due to policy changes. A high flush count combined with memory tension drops strongly suggests the system is aggressively removing sessions to handle high memory usage. Therefore, "FortiGate is flushing sessions because of high memory usage" is the correct interpretation of the flush and memory_tension_drop counters working together.

Why other options are incorrect:

* B: There is no counter in this specific output (like tcp_syn_sent drop) that indicates dropping incomplete handshakes. The clash=0 and delete=0 counters are low/zero.

* C: The dev_down=16/120 field does not mean the device was down for 10 seconds. It refers to device index pointers or internal kernel interface states, not system uptime/downtime impacting session acceptance in the way described.

Reference:

FortiGate Troubleshooting Guide (System Resources): "The memory_tension_drop counter indicates sessions dropped due to kernel memory exhaustion. The flush counter indicates sessions removed to free up table space."

NEW QUESTION # 18

Refer to the exhibit, which shows a partial output from the get router info routing-table database command.

```
# get router info routing-table database
---omitted---

Routing table for VRF=0
S          0.0.0.0/0 [20/0] via 100.64.2.254, port2, [10/0]
S          0.0.0.0/0 [10/0] via 100.64.1.254, port1 inactive, [50/0]
---omitted---
```

The administrator wants to configure a default static route for port3 and assign a distance of 50 and a priority of 0. What will happen to the port1 and port2 default static routes after the port3 default static route is created?

- A. The port2 default static route will be injected into the forwarding information base (FIB).
- B. The port1 default static route will be injected into the FIB.
- C. Neither of the routes shown in the output will be injected into the FIB.
- D. Both default static routes shown in the output will be injected into the FIB.

Answer: A

NEW QUESTION # 19

Exhibit.



Refer to the exhibit, which contains a screenshot of some phase 1 settings.

The VPN is not up. To diagnose the issue, the administrator enters the following CLI commands on an SSH session on FortiGate:

```
diagnose vpn ike log-filter dst-addr4 10.0.10.1
diagnose debug application ike -1
```

However, the IKE real-time debug does not show any output. Why?

- A. The debug shows only error messages. If there is no output, then the phase 1 and phase 2 configurations match.
- **B. The administrator must also run the command `diagnose debug enable`.**
- C. Replace `diagnose debug application ike -1` with `diagnose debug application ipsec -1`.
- D. The `log-filter` setting is incorrect. The VPN traffic does not match this filter.

Answer: B

NEW QUESTION # 20

Refer to the exhibit, which shows the omitted output of a session table entry.

```
pos/(before,after) 0/(0,0),0x00(0,0)
misc=0 policy_id=1 pol_uid idx=14720 confiauth_info=0 ch_client_info=0 vd=0
serial=0002932f tos=ff/ff app_list=2000 app=34050 url_cat=
sdwan_mbr_seq=1 sdwan_service_id=1
rpd_b_link_id=80000000 ngfwid=n/a
npu_state=0x003e94 ips_offload
npu_info: flag=0x81/0x81, offload=8/8, ips_offload=1/1, epid=16/16, ipid=64/88, vlan=0x0000/0x0000
vlifid=64/88, vtag_in=0x0000/0x0000 in_npu=1/1, out_npu=1/1, fwd_en=0/0, qlid=0/0
```

Which two statements are true? (Choose two.)

- **A. The traffic matches Policy ID 1.**
- B. The traffic has been tagged for VLAN 0000.
- **C. The session has been offloaded.**
- D. NP7 is handling offloading of this session.

Answer: A,C

Explanation:

In the provided session table output, the following details justify the answers:

Policy ID Match: The line `policy_id=1` directly confirms that this session was matched by Firewall Policy ID

1. According to Fortinet's session table documentation, the `policy_id` field always references the policy that allowed this session, so this is a clear indicator.

Session Offloading: The presence of the strings `npu_state`, `ips_offload`, and notably the NPU info section such as `offload=8/8`, `ips_offload=1/1` shows that this session has been offloaded to the Network Processor Unit (NPU). Fortinet technical documentation states that "offload" values greater than zero in both directions (and an NPU info section) affirm that NPU hardware processing (fast path) is handling this traffic, thus the session is not being handled in software only.

Other options:

VLAN Tagging (`vlan=0x0000/0x0000`): This means no VLAN tag is assigned to this session.

NP7: The actual NPU model handling the session isn't exposed in this snippet-the offload parameters shown are generic and not specific to NP7 hardware, so it cannot be concluded from the session data.

References:

Fortinet Technical Tip: FortiGate Session Table and NPU Offloading

FortiOS Diagnostics Guide: Policy ID, Offload, and VLAN Session Table Fields

NEW QUESTION # 21

Refer to the exhibit.

Output of diagnose npu np6 port-list on FortiGate 2000E

| Chip | XAUI | Ports | Max Speed | Cross-chip offloading |
|-------|------|--------|-----------|-----------------------|
| np6_1 | 0 | port1 | 1G | No |
| | 0 | port5 | 1G | No |
| | 0 | port9 | 1G | No |
| | 0 | port13 | 1G | No |
| | 0 | port17 | 1G | No |
| | 0 | port21 | 1G | No |

-omitted-

A partial output of diagnose npu up6 port-list on FortiGate 2000E is shown. An administrator is unable to analyze traffic flowing between port1 and port17 using the diagnose sniffer command. Which two commands allow the administrator to view the traffic? (Choose two.)

```
config firewall policy
edit 5
set auto-asic-offload disable
end
next
edit 17
set auto-asic-offload disable
end
```

• A.

```
config system npu
set fastpath disable
end
```

• B.

```
diagnose npu np6 fastpath disable 1
```

• C.

```
diagnose npu np6 port-list disable 5 17
```

• D.

Answer: A,C

Explanation:

The administrator cannot see traffic in the sniffer because it is being offloaded to the NPU (NP6). To view the traffic, offloading must be disabled so packets pass through the CPU.

* B. config firewall policy ... set auto-asic-offload disable: This is the recommended method to troubleshoot specific traffic. By disabling ASIC offloading in the relevant firewall policies (Policies 5 and 17 in the exhibit), traffic is forced to the CPU and becomes

visible to the sniffer.

* C. diagnose npu np6 fastpath disable 1: This command temporarily disables the fastpath processing on the specific NP6 processor (ID 1) handling the ports. This forces all traffic handled by that NPU to the CPU, allowing the sniffer to capture it.

* Incorrect Options: Option A uses invalid syntax (port-list disable is not a valid command). Option D (config system npu) is not the standard method for granular troubleshooting.

NEW QUESTION # 22

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