NSE7_EFW-7.0^Q&As

Fortinet NSE 7 - Enterprise Firewall 7.0

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QUESTION 1

View the exhibit, which contains a session entry, and then answer the question below.

```
session info: proto=1 proto_state=00 duration=1 expire=59 timeout=0 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state-log may_dirty none
statistic(bytes/packets/allow_err): org=168/2/1 reply=168/2/1 tuples=2
tx speed(Bps/kbps): 97/0 rx speed(Bps/kbps): 97/0
orgin->sink: org pre->post, reply pre->post dev=9->3/3->9 gwy=10.200.1.254/10.1.0.1
hook=post dir=org act=snat 10.1.10.10:40602->10.200.5.1:8(10.200.1.254/10.1.0.1
hook=pre dir=reply act=dnat 10.200.5.1:60430->10.200.1.1:0(10.1.10.10:40602)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=0002a5c9 tos=ff/ff app_list=0 app=0 url_cat=0
dd_type=0 dd_mode=0
```

Which statement is correct regarding this session?

A. It is an ICMP session from 10.1.10.10 to 10.200.1.1.

B. It is an ICMP session from 10.1.10.10 to 10.200.5.1.

C. It is a TCP session in ESTABLISHED state from 10.1.10.10 to 10.200.5.1.

D. It is a TCP session in CLOSE_WAIT state from 10.1.10.10 to 10.200.1.1.

Correct Answer: B

QUESTION 2

Which of the following conditions must be met for a static route to be active in the routing table? (Choose three.)

A. The next-hop IP address is up.

B. There is no other route, to the same destination, with a higher distance.

C. The link health monitor (if configured) is up.

D. The next-hop IP address belongs to one of the outgoing interface subnets.

E. The outgoing interface is up.

Correct Answer: CDE

A configured static route only goes to routing table from routing database when all the following are met : The outgoing interface is up There is no other matching route with a lower distance The link health monitor (if configured) is successful The next-hop IP address belongs to one of the outgoing interface subnets

QUESTION 3

View these partial outputs from two routing debug commands:

```
# get router info kernel
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.1.254
dev=2(port1)
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.2.254
dev=3(port2)
tab=254 vf=0 scope=253 type=1 proto=2 prio=0 0.0.0.0/0.0.0.0/0->10.0.1.0/24 pref=10.0.1.254 gwy=0.0.0.0
dev=4(port3)
# get router info routing-table all
S*      0.0.0.0/0 [10/0] via 10.200.1.254, port1
                  [10/0] via 10.200.2.254, port2, [10/0]
C       10.0.1.0/24 is directly connected, port3
C       10.200.1.0/24 is directly connected, port1
C       10.200.2.0/24 is directly connected, port2
```

Which outbound interface will FortiGate use to route web traffic from internal users to the Internet?

A. Both port1 and port2

B. port3

C. port1

D. port2

Correct Answer: C

QUESTION 4

Which of the following statements is true regarding a FortiGate configured as an explicit web proxy?

A. FortiGate limits the number of simultaneous sessions per explicit web proxy user. This limit CANNOT be modified by the administrator.

B. FortiGate limits the total number of simultaneous explicit web proxy users.

C. FortiGate limits the number of simultaneous sessions per explicit web proxy user The limit CAN be modified by the administrator

D. FortiGate limits the number of workstations that authenticate using the same web proxy user credentials. This limit CANNOT be modified by the administrator.

Correct Answer: B

Explanation: https://help.fortinet.com/fos50hlp/52data/Content/FortiOS/fortigate-WAN-opt- 52/web_proxy.htm#Explicit2 The explicit proxy does not limit the number of active sessions for each user. As a result the actual explicit proxy session count is usually much higher than the number of explicit web proxy users. If an excessive number of explicit web proxy sessions is compromising system performance you can limit the amount of users if the FortiGate unit is operating with multiple VDOMs.

QUESTION 5

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

```
FGT # diagnose sys session list
session info: proto=6 proto_state=11 duration=35 expire=265 timeout=300 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=4
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=redir local may_dirty none app_ntf
statistic(bytes/packets/allow_err): org=3208/25/1 reply=11144/29/1 tuples=2
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
orgin->sink: org pre->post, reply pre->post dev=7->6/6->7 gwy=172.20.121.2/10.0.0.2
hook=post dir=org act=snat 192.167.1.100:49545->216.58.216.238:443(172.20.121.96:49545)
hook=pre dir=reply act=dnat 216.58.216.238:443->172.20.121.96:49545(192.167.1.100:49545)
pos/(before,after) 0/(0,0), 0/(0,0)
src_mac=08:5b:0e:6c:7b:7a
misc=0 policy_id=21 auth_info=0 chk_client_info=0 vd=0
serial=007f2948 tos=ff/ff app_list=0 app=0 url_cat=41
rpdb_link_id = 00000000
dd_type=0 dd_mode=0
npu_state=00000000
npu info: flag=0x00/0x00, offload=0/0, ips_offload=0/0, epid=0/0, ipid=0/0, vlan=0x0000/0x0000
vlifid=0/0, vtag_in=0x0000/0x0000 in_npu=0/0, out_npu=0/0, fwd_en=0/0, qid=0/0
```

Which statement about FortiGate behavior relating to this session is true?

A. FortiGate redirected the client to the captive portal to authenticate, so that a correct policy match could be made.

B. FortiGate forwarded this session without any inspection.

C. FortiGate is performing security profile inspection using the CPU. Most Voted

D. FortiGate applied only IPS inspection to this session.

Correct Answer: C

Explanation: Enterprise_Firewall_7.0_Study_Guide-Online.pdf p 91, 92 First digit of "proto_state" value at 1 and considering all counters are at 0 for HW acceleration means CPU usage

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