Fortinet

Exam Questions NSE7_EFW-7.0

Fortinet NSE 7 - Enterprise Firewall 7.0

NEW QUESTION 1
View the exhibit, which contains the output of a BGP debug command, and then answer the question below.

```
FGT # get router info bgp summary
BGP router identifier 0.0.0.117, local AS number 65117
BGP table version is 104
3 BGP AS-PATH entries
0 BGP community entries

Neighbor      V    AS   MsgRcvd  MsgSent  TblVer   InQ  OutQ     Up/Down       State/PfxRcd
10.125.0.60   4 65060   1698     1756     103       0     0      03:02:49           1
10.127.0.75   4 65075   2206     2250     102       0     0      02:45:55           1
100.64.3.1    4 65501   101      115       0        0     0      never            Active

Total number of neighbors 3
```

Which of the following statements about the exhibit are true? (Choose two.)

A. The local router's BGP state is Established with the 10.125.0.60 peer.
B. Since the counters were last reset; the 10.200.3.1 peer has never been down.
C. The local router has received a total of three BGP prefixes from all peers.
D. The local router has not established a TCP session with 100.64.3.1.

Answer: AD

NEW QUESTION 2
Which two conditions must be met for a statistic route to be active in the routing table? (Choose two.)

A. The link health monitor (if configured) is up.
B. There is no other route, to the same destination, with a higher distance.
C. The outgoing interface is up.
D. The next-hop IP address is up.

Answer: AC

NEW QUESTION 3
Examine the following partial outputs from two routing debug commands; then answer the question below.
# get router info kernel
tab=254 vf=0 scope=0type=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=0type=1 proto=11 prio=10 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=253type=1 proto=2 prio=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, portl [10/0] via 10.200.2.254, port2, [10/0] dO.0.1.0/24 is directly connected, port3
dO.200.1.0/24 is directly connected, portl d0.200.2.0/24 is directly connected, port2
Which outbound interface or interfaces will be used by this FortiGate to route web traffic from internal users to the Internet?

A. port!
B. port2.
C. Both portl and port2.
D. port3.

Answer: B

NEW QUESTION 4
Refer to the exhibit, which shows the output of diagnose sys session list.

```
# diagnose sys session list
session info: proto=6 proto_state=01 duration=73 expire=3597 timeout=3600
flags=00000000 sockflag=00000000 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
state=may_dirty synced none app_ntf
statistic(bytes/packets/allow_err): org=822/11/1 reply=9037/15/1 tuples=2
orgin->sink: org pre->post, reply pre->post dev=4->2/2->4
gwy=100.64.1.254/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:65464->54.192.15.182:80(100.64.1.1:65464)
hook=pre dir=reply act=dnat 54.192.15.182:80->100.64.1.1:65464(10.0.1.10:65464)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000098 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

If the HA ID for the primary device is 0, what will happen if the primary fails and the secondary becomes the primary?

A. Traffic for this session continues to be permitted on the new primary device after failover, without requiring the client to restart the session with the server.

B. The secondary device has this session synchronized; however, because application control is applied, the session will be marked dirty and have to be re-evaluated after failover.
C. The session state will be preserved but the kernel will need to re-evaluate the session due to NAT being applied.
D. The session will be removed from the session table of the secondary device due to the presence of allowed error packets, which will force the client to restart the session with the server.

Answer: A

Explanation:
https://community.fortinet.com/t5/FortiGate/Technical-Note-How-to-see-if-a-session-is-synced-in-HA/ta-p/1941

NEW QUESTION 5
Refer to the exhibit, which contains the output of a BGP debug command.

```
FGT # get router info bgp summary
BGP router identifier 0.0.0.117, local AS number 65117
BGP table version is 104
3 BGP AS-PATH entries
0 BGP community entries

Neighbor        V    AS  MsgRcvd MsgSent  TblVer InQ OutQ  Up/Down  State/PfxRcd
10.125.0.60     4 65060  1698    1756     103     0    0   03:02:49        1
10.127.0.75     4 65075  2206    2250     102     0    0   02:45:55        1
100.64.3.1      4 65501  101     115       0      0    0   never       Active

Total number of neighbors 3
```

Which statement about the exhibit is true?

A. The local router has received a total of three BGP prefixes from all peers.
B. The local router has not established a TCP session with 100.64.3.1.
C. Since the counters were last reset, the 10.200.3.1 peer has never been down.
D. The local router BGP state is OpenConfirm with the 10.127.0.75 peer.

Answer: B

NEW QUESTION 6
Four FortiGate devices configured for OSPF connected to the same broadcast domain. The first unit is elected as the designated router The second unit is elected as the backup designated router Under normal operation, how many OSPF full adjacencies are formed to each of the other two units?

A. 1
B. 2
C. 3
D. 4

Answer: B

NEW QUESTION 7
How does FortiManager handle FortiGuard requests from FortiGate devices, when it is configured as a local FDS?

A. FortiManager can download and maintain local copies of FortiGuard databases.
B. FortiManager supports only FortiGuard push to managed devices.
C. FortiManager will respond to update requests only if they originate from a managed device.
D. FortiManager does not support rating requests.

Answer: A

NEW QUESTION 8
Refer to the exhibit, which shows partial outputs from two routing debug commands.

```
FortiGate # 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=100.64.1.254 dev=3(port1)
tab=254 vf=0 scope=0 type=1 proto=11 prio=10 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=100.64.2.254 dev=6(port2)
tab=254 vf=0 scope=253 type=1 proto=2 prio=0 0.0.0.0/0.0.0.0/0->10.1.0.0/24 pref=10.1.0.254 gwy=0.0.0.0 dev=9(port3)

FortiGate # get router info routing-table all

Routing table for VRF=0
S*      0.0.0.0/0 [10/0] via 100.64.1.254, port1
                  [10/0] via 100.64.2.254, port2, [10/0]
C       10.1.0.0/24 is directly connected, port3
S       10.1.10.0/24 [10/0] via 10.1.0.1, port3
C       100.64.1.0/24 is directly connected, port1
C       100.64.2.0/24 is directly connected, port2
```

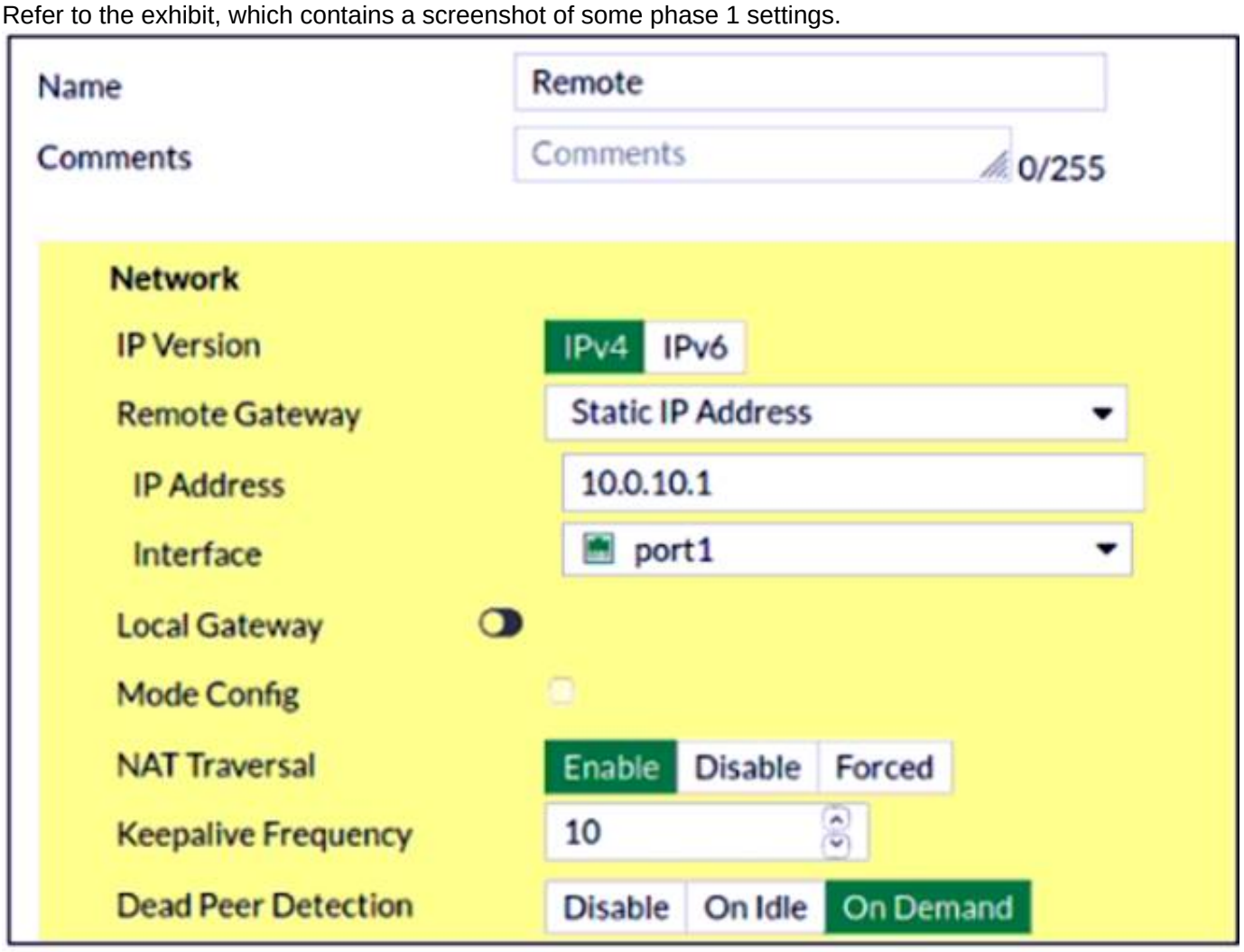
Which change must an administrator make on FortiGate to route web traffic from internal users to the internet, using ECMP?

A. Set the priority of the static default route using port1 to 10. Most Voted
B. Set the priority of the static default route using port2 to 1.
C. Set preserve-session-route to enable.
D. Set snat-route-change to enable.

Answer: A

Explanation:
ECMP pre-requisite is "routes must have the same destination and costs. In the case of static routes, costs include distance and priority". In this case traffic is routed through port 1 because of the lower priority. If we raise priority on port 1 to the value of 10 the traffic should be routed through both ports 1 and 2.
https://docs.fortinet.com/document/fortigate/7.0.1/administration-guide/25967/equal-cost-multi-path

NEW QUESTION 9
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 to 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 administrator must also run the command diagnose debug enable.
B. The administrator must enable the following real-time debug: diagnose debug application ipsec -1.
C. The log-filter setting is incorrec
D. The VPN traffic does not match this filter.
E. The debug shows only error message
F. If there is no output, then the phase 1 and phase 2 configurations match.

Answer: A

Explanation:
https://community.fortinet.com/t5/FortiGate/Technical-Tip-IPSec-VPN-Diagnostics-Possible-reasons/ta-p/1920

NEW QUESTION 10
Refer to the exhibit, which contains the partial output of a diagnose command.

```
Spoke-2 # dia vpn tunnel list
list all ipsec tunnel in vd 0
------------------------------------------------------------------------------------------
name=VPN ver=1 serial=1 10.200.5.1:0->10.200.4.1:0
bound_if=3 lgwy=static/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refcnt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
proxyid=VPN proto=0 sa=1 ref=2 serial=1
     src: 0:10.1.2.0/255.255.255.0:0
     dst: 0:10.1.1.0/255.255.255.0:0
     SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/0B replaywin=2048 seqno=1 esn=0
replaywin_lastseq=00000000
     life: type=01 bytes=0/0 timeout=43177/43200
     dec: spi=ccc1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
            ah=sha1 key=20 c68091d68753578785de6a7a6b276b506c527efe
     enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
           ah=sha1 key=20 889f7529887c215c25950be2ba83e6fe1a5367be
     dec: pkts/bytes=0/0, enc:pkts/bytes=0/0
```

Based on the output, which two statements are correct? (Choose two.)

A. Anti-replay is enabled
B. The remote gateway IP is 10.200.4.1.
C. DPD is disabled.
D. Quick mode selectors are disabled.

Answer: AB

NEW QUESTION 10
An administrator wants to capture encrypted phase 2 traffic between two FortiGate devices using the built-in sniffer.
If the administrator knows that there is no NAT device located between both FortiGate devices, which command should the administrator run?

A. diagnose sniffer packet any ‘ah’
B. diagnose sniffer packet any ‘ip proto 50’
C. diagnose sniffer packet any ‘udp port 4500’
D. diagnose sniffer packet any ‘udp port 500’

Answer: B

Explanation:
Enterprise_Firewall_7.0_Study_Guide-Online.pdf p. 443 Phase 2 : ESP => IP protocol 50
This command will capture any packets that use the IP protocol number 50, which is ESP (Encapsulating Security Payload). ESP is used to encrypt and authenticate the phase 2 traffic between two FortiGate device1s.

NEW QUESTION 14
View the exhibit, which contains the output of a diagnose command, and then answer the question below.

```
     diagnose sys session list expectation

session info: proto=6 proto_state-00 duration=3 expire=26 timeout=3600 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
ha_id-0 policy_dir=1 tunnel=/
state=new complex
statistic(bytes/packets/allow_err): org=0/0/0 reply-0/0/0 tuples=2
orgin->sink: org pre->post, reply pre->post dev=2->4/4->2 gwy=10.0.1.10/10.200.1.254
hook=pre dir-org act=dnat 10.171.121.38:0->10.200.1.1:60426(10.0.1.10:50365)
hook-pre dir-org act-noop 0.0.0.0:0->0.0.0.0:0(0.0.0.0:0)
pos/(before, after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=000000e9 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

What statements are correct regarding the output? (Choose two.)

A. This is an expected session created by a session helper.
B. Traffic in the original direction (coming from the IP address 10.171.122.38) will be routed to the next-hop IP address 10.0.1.10.

C. Traffic in the original direction (coming from the IP address 10.171.122.38) will be routed to the next-hop IP address 10.200.1.1.
D. This is an expected session created by an application control profile.

Answer: AC

NEW QUESTION 17
Refer to the exhibit, which contains partial output from an IKE real-time debug.

```
ike 0:253000:27: responder: main mode get 1st message...
ike 0:253000:27: VID DPD AFCAD71368A1F1C96B8696FC77570100
ike 0:253000:27: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3
ike 0:253000:27: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000
ike 0:253000:27: VID FORTIGATE 8299031757A36082C6A621DE00000000
ike 0:253000:27: incoming proposal:
ike 0:253000:27: proposal id = 0:
ike 0:253000:27:   protocol id = ISAKMP:
ike 0:253000:27:      trans_id = KEY_IKE.
ike 0:253000:27:      encapsulation = IKE/none
ike 0:253000:27:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=256
ike 0:253000:27:         type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:253000:27:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:253000:27:         type=OAKLEY_GROUP, val=MODP1536.
ike 0:253000:27: ISAKMP SA lifetime=86400
ike 0:253000:27: my proposal, gw Remotesite:
ike 0:253000:27: proposal id = 1:
ike 0:253000:27:   protocol id = ISAKMP:
ike 0:253000:27:      trans_id = KEY_IKE.
ike 0:253000:27:      encapsulation = IKE/none
ike 0:253000:27:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0:253000:27:         type=OAKLEY_HASH_ALG, val=SHA.
ike 0:253000:27:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:253000:27:         type=OAKLEY_GROUP, val=MODP1536.
ike 0:253000:27: ISAKMP SA lifetime=86400
ike 0:253000:27: negotiation failure
ike Negot:253a8cbe6335e6fd/0000000000000000:27: no SA proposal chosen
```

Why did the tunnel not come up?

A. The local gateway has configured less secure encryption and hashing algorithms compared to the remote gateway.
B. The Diffie-Hellman group does not match on the local and remote gateways.
C. The proposal ID does not match between local and remote gateways.
D. The encapsulation method for phase 2 is set to none on local and remote gateways.

Answer: A

Explanation:
local gateway: encryption AES-128, hash SHA remote gateway: encryption AES-256, hash SHA-256 So local gateway has less secure settings

NEW QUESTION 19
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.

Answer: B

NEW QUESTION 23
Refer to the exhibit, which contains the output of diagnose sys session list.

```
f diagnose sys session list
session info: proto=6 proto_state=01 duration=73 expire=3597 timeout=3600
flags=00000000 sockflag=00000000 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
state=may_dirty synced none app_ntf
statistic(bytes/packets/allow_err): org=822/11/1 reply=9037/15/1 tuples=2
orgin->sink: org pre->post, reply pre->post dev=4->2/2->4
gwy=100.64.1.254/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:65464->54.192.15.182:80(100.64.1.1:65464)
hook=pre dir=reply act=dnat 54.192.15.182:80->100.64.1.1:65464(10.0.1.10:65464)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000098 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

If the HA ID for the primary unit is zero (0), which statement about the output is true?

A. This session cannot be synced with the slave unit.
B. The inspection of this session has been offloaded to the slave unit.
C. The master unit is processing this traffic.
D. This session is for HA heartbeat traffic.

Answer: C

NEW QUESTION 24
View the exhibit, which contains the output of diagnose sys session stat, and then answer the question below.

```
NGFW-1 # diagnose sys session stat
misc info:     session_count=591  setup_rate=0  exp_count=0
clash=162  memory_tension_drop=0  ephemeral=0/65536
removeable=0
delete=0, flush-0, dev_down=0/0
TCP sessions:
        166 in NONE state
        1 in ESTABLISHED state
        3 in SYN_SENT state
        2 in TIME_WAIT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000006
global: ses_limit=0  ses6_limit=0  rt_limit=0  rt6_limit=0
```

Which statements are correct regarding the output shown? (Choose two.)

A. There are 0 ephemeral sessions.
B. All the sessions in the session table are TCP sessions.
C. No sessions have been deleted because of memory pages exhaustion.
D. There are 166 TCP sessions waiting to complete the three-way handshake.

Answer: AC

Explanation:
https://kb.fortinet.com/kb/documentLink.do?externalID=FD40578

NEW QUESTION 26
Which of the following statements are true regarding the SIP session helper and the SIP application layer gateway (ALG)? (Choose three.)

A. SIP session helper runs in the kernel; SIP ALG runs as a user space process.
B. SIP ALG supports SIP HA failover; SIP helper does not.
C. SIP ALG supports SIP over IPv6; SIP helper does not.
D. SIP ALG can create expected sessions for media traffic; SIP helper does not.
E. SIP helper supports SIP over TCP and UDP; SIP ALG supports only SIP over UDP.

Answer: BCD

NEW QUESTION 31
Which configuration can be used to reduce the number of BGP sessions in an IBGP network?

A. route-reflector enable
B. route-reflector-server enable
C. route-reflector-client enable
D. route-reflector-peer enable

Answer: C

Explanation:
https://docs.fortinet.com/document/fortigate/7.0.11/cli-reference/572620/config-router-bgp set route-reflector-client [enable|disable]

NEW QUESTION 32
An administrator added the following Ipsec VPN to a FortiGate configuration:
configvpn ipsec phasel -interface edit "RemoteSite"
set type dynamic
set interface "portl"
set mode main
set psksecret ENC LCVkCiK2E2PhVUzZe next
end
config vpn ipsec phase2-interface edit "RemoteSite"
set phasel name "RemoteSite" set proposal 3des-sha256
next end
However, the phase 1 negotiation is failing. The administrator executed the IKF real time debug while attempting the Ipsec connection. The output is shown in the exhibit.

```
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=2....
ike 0: IKEv1 exchange=Identity Protection id=xxx/xxx len=716
ike 0:xxx/xxx:16: responder: main mode get 1st message...
ike 0:xxx/xxx:16: VID RFC 3947 4A131C81070358455C5728F20E95452F
...
ike 0:xxx/xxx:16: negotiation result
ike 0:xxx/xxx:16: proposal id = 1:
ike 0:xxx/xxx:16:   protocol id = ISAKMP:
ike 0:xxx/xxx:16:     trans_id = KEY_IKE.
ike 0:xxx/xxx:16:     encapsulation = IKE/none
ike 0:xxx/xxx:16:       type=OAKLEY_ENCRYPT_ALG, val=AES_CBC.
ike 0:xxx/xxx:16:       type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:xxx/xxx:16:       type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:xxx/xxx:16:       type=OAKLEY_GROUP, val=MODP2048.
ike 0:xxx/xxx:16: ISAKMP SA lifetime=86400
ike 0:xxx/xxx:16: SA proposal chosen, matched gateway DialUpUsers
...
ike 0:DialUpUsers:16: sent IKE msg (ident_r1send): 10.200.1.1:500->10.200.3.1:500, len
id=xxx/xxx
```

```
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=2....
ike 0: IKEv1 exchange=Identity Protection id=xxx/xxx len=380
ike 0:DialUpUsers:16: responder:main mode get 2nd message...
ike 0:DialUpUsers:16: NAT not detected
ike 0:DialUpUsers:16: sent IKE msg (ident_r2send): 10.200.1.1:500->10.200.3.1:500, len
id=xxx/xxx
ike 0:DialUpUsers:16: ISAKMP SA xxx/xxx key 16:3D33E2EF00BE927701B5C25B05A62415
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=2....
ike 0: IKEv1 exchange=Identity Protection id=xxx/xxx len=108
ike 0:DialUpUsers:16: responder: main mode get 3rd message...
ike 0:DialUpUsers:16: probable pre-shared secret mismatch
ike 0:DialUpUsers:16: unable to parse msg
```

What is causing the IPsec problem in the phase 1 ?

A. The incoming IPsec connection is matching the wrong VPN configuration
B. The phrase-1 mode must be changed to aggressive
C. The pre-shared key is wrong
D. NAT-T settings do not match

Answer: C

NEW QUESTION 33
View the global IPS configuration, and then answer the question below.

```
config ips global
    set fail-open disable
    set intelligent-mode disable
    set engine-count 0
    set algorithm engine-pick
end
```

Which of the following statements is true regarding this configuration?

A. IPS will scan every byte in every session.
B. FortiGate will spawn IPS engine instances based on the system load.
C. New packets will be passed through without inspection if the IPS socket buffer runs out of memory.
D. IPS will use the faster matching algorithm which is only available for units with more than 4 GB memory.

Answer: A

NEW QUESTION 36
A FortiGate's portl is connected to a private network. Its port2 is connected to the Internet. Explicit web proxy is enabled in port1 and only explicit web proxy users can access the Internet. Web cache is NOT enabled. An internal web proxy user is downloading a file from the Internet via HTTP. Which statements are true regarding the two entries in the FortiGate session table related with this traffic? (Choose two.)

A. Both session have the local flag on.
B. The destination IP addresses of both sessions are IP addresses assigned to FortiGate's interfaces.
C. One session has the proxy flag on, the other one does not.
D. One of the sessions has the IP address of port2 as the source IP address.

Answer: AD

NEW QUESTION 39
Refer to the exhibit, which shows the output of a BGP debug command.

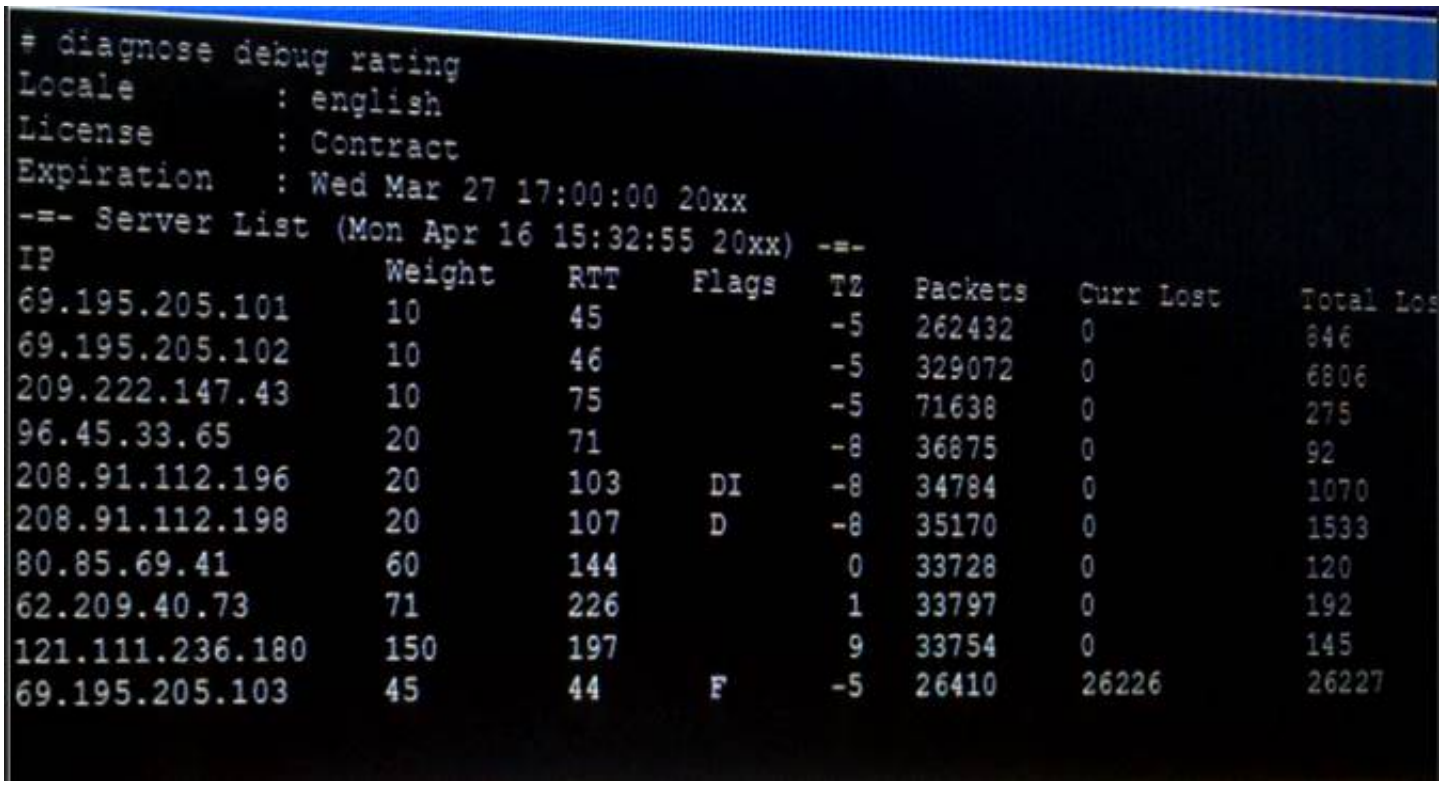
```
FGT # get router info bgp summary
BGP router identifier 10.200.1.1, local AS number 655
BGP table version is 2
1 BGP AS-PATH entries
0 BGP community entries

Neighbor        V    AS        MsgRcvd MsgSent    TblVe
10.200.3.1      4 65501        92      1756        0

Total number of neighbors 1
```

Which statement explains why the state of the 10.200.3.1 peer is Connect?

A. The local router has a different AS number than the remote peer.
B. The local router is receiving BGP keepalives from the remote peer, but the local peer has not received the openConfirm yet.
C. The local router initiated the BGP session to 10.200.3.1 but did not receive a response.
D. The router 10.200.3.1 has authentication configured for BGP and the local router does not.

Answer: C

NEW QUESTION 42
Examine the output of the 'diagnose debug rating' command shown in the exhibit; then answer the question below.



Which statement are true regarding the output in the exhibit? (Choose two.)

A. There are three FortiGuard servers that are not responding to the queries sent by the FortiGate.
B. The TZ value represents the delta between each FortiGuard server's time zone and the FortiGate's time zone.
C. FortiGate will send the FortiGuard queries to the server with highest weight.
D. A server's round trip delay (RTT) is not used to calculate its weight.

Answer: BC

NEW QUESTION 43
Examine the partial output from the IKE real time debug shown in the exhibit; then answer the question below.

```
#diagnose debug application ike -1
#diagnose debug enable
ike 0: ….: 75: responder: aggressive mode get 1st message…
…
ike 0: ….:76: incoming proposal:
ike 0: ….:76: proposal id = 0:
ike 0: ….:76:    protocol id= ISAKMP:
ike 0: ….:76:      trans_id = KEY_IKE.
ike 0: ….:76:      encapsulation = IKE/none
ike 0: ….:76:        type= OAKLEY_ENCRYPT_ALG, val=AES_CBC.
ike 0: ….:76:        type= OAKLEY_HASH_ALG, val=SHA2_256.
ike 0: ….:76:        type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: ….:76:        type=OAKLEY_GROUP, val=MODP2048.
ike 0: ….:76: ISAKMP SA lifetime=86400
ike 0: ….:76: my proposal, gw Remote:
ike 0: ….:76: proposal id=1:
ike 0: ….:76:    protocol id= ISAKMP:
ike 0: ….:76:      trans_id= KEY_IKE.
ike 0: ….:76:      encapsulation = IKE/none
ike 0: ….:76:        type=OAKLEY_ECNRYPT_ALG, val=DES_CBC.
ike 0: ….:76:        type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0: ….:76:        type=AUTH_METHOD, val= PRESHARED_KEY.
ike 0: ….:76:        type=OAKLEY_GROUP, val =MODP2048.
ike 0: ….:76: ISAKMP SA lifetime=86400
ike 0: ….:76: proposal id=1:
ike 0: ….:76:    protocol id= ISAKMP:
ike 0: ….:76:      trans_id= KEY_IKE.
ike 0: ….:76:      encapsulation = IKE/none
ike 0: ….:76:        type=OAKLEY_ENCRYPT_ALG, val=DES_CBC.
ike 0: ….:76:        type= OAKLEY_HASH_ALG, val=SHA2_256.
ike 0: ….:76:        type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: ….:76:        type=OAKLEY_GROUP, val=MODP1536.
ike 0: ….:76: ISAKMP SA lifetime=86400
ike 0: ….:76: negotiation failure
ike Negotiate ISAKMP SA Error: ike 0: ….:76: no SA proposal chosen
```

Why didn’t the tunnel come up?

A. IKE mode configuration is not enabled in the remote IPsec gateway.
B. The remote gateway’s Phase-2 configuration does not match the local gateway’s phase-2 configuration.
C. The remote gateway’s Phase-1 configuration does not match the local gateway’s phase-1 configuration.
D. One IPsec gateway is using main mode, while the other IPsec gateway is using aggressive mode.

Answer: C

NEW QUESTION 46
A FortiGate has two default routes:

```
config router static
   edit 1
     set gateway 10.200.1.254
     set priority 5
     set device “port1”
   next
   edit2
     set gateway 10.200.2.254
     set priority 10
     set device “port2”
   next
end
```

All Internet traffic is currently using port1. The exhibit shows partial information for one sample session of Internet traffic from an internal user:

```
# diagnose sys session list
Session info: proto=6 proto_state=01 duration =17 expire=7 timeout=3600
flags= 00000000 sockflag=00000000 sockport=0 av idx=0 use=3
ha_id=0 policy_dir=0 tunnel=/
state=may_dirty none app_ntf
statistic (bytes/packets/allow_err): org=575/7/1 reply=23367/19/1 tuples=2
origin->sink: org pre->post, reply pre->post dev=4->2/2->4
gwy=10.200.1.254/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:64907-
>54.239.158.170:80(10.200.1.1:64907)
hook=pre dir=reply act=dnat 54.239.158.170:80-
>10.200.1.1:64907(10.0.1.10:64907)
pos/(before, after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000294 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

What would happen with the traffic matching the above session if the priority on the first default route (IDd1) were changed from 5 to 20?

A. The session would be deleted, and the client would need to start a new session.
B. The session would remain in the session table, and its traffic would start to egress from port2.
C. The session would remain in the session table, but its traffic would now egress from both port1 and port2.
D. The session would remain in the session table, and its traffic would still egress from port1.

Answer: D

NEW QUESTION 49
What are two functions of automation stitches? (Choose two.)

A. Automation stitches can be configured on any FortiGate device in a Security Fabric environment.
B. An automation stitch configured to execute actions sequentially can take parameters from previous actions as input for the current action.
C. Automation stitches can be created to run diagnostic commands and attach the results to an email message when CPU or memory usage exceeds specified thresholds.
D. An automation stitch configured to execute actions in parallel can be set to insert a specific delay between actions.

Answer: BC

Explanation:
Enterprise_Firewall_7.0_Study_Guide-Online.pdf p 23, 26

NEW QUESTION 51
View the following FortiGate configuration.

```
config system global
   set snat-route-change disable
end
config router static
   edit 1
      set gateway 10.200.1.254
      set priority 5
      set device "port1"
   next
   edit 2
      set gateway 10.200.2.254
      set priority 10
      set device "port2"
   next
end
```

All traffic to the Internet currently egresses from port1. The exhibit shows partial session information for Internet traffic from a user on the internal network:

```
# diagnose sys session list
session info: proto=6 proto_state+01 duration=17 expire=7 timeout=3600
flags=00000000 sockflag=00000000 sockport=0 av_idx=0 use=3
ha_id=0 policy_dir=0 tunnel=/
state=may_dirty none app_ntf
statistic(bytes/packets/allow_err): org=57555/7/1 reply=23367/19/1 tuples=2
orgin->sink: org pre->post, reply pre->post dev=4->2/2->4
gwy=10.200.1.254/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:64907-
>54.239.158.170:80(10.200.1.1:64907)
hook=pre dir=reply act=dnat 54.239.158.170:80-
>10.200.1.1:64907(10.0.1.10:64907)
pos/(before, after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000294 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

If the priority on route ID 1 were changed from 5 to 20, what would happen to traffic matching that user's session?

A. The session would remain in the session table, and its traffic would still egress from port1.
B. The session would remain in the session table, but its traffic would now egress from both port1 and port2.
C. The session would remain in the session table, and its traffic would start to egress from port2.
D. The session would be deleted, so the client would need to start a new session.

Answer: A

Explanation:
http://kb.fortinet.com/kb/documentLink.do?externalID=FD40943

NEW QUESTION 56
View the exhibit, which contains the partial output of an IKE real-time debug, and then answer the question below.

```
ike 0:c49e59846861b0f6/0000000000000000:278: responder: main mode get 1st message…
ike 0:c49e59846861b0f6/0000000000000000:278: incoming proposal:
ike 0:c49e59846861b0f6/0000000000000000:278: proposal id = 0:
ike 0:c49e59846861b0f6/0000000000000000:278:   protocol id = ISAKMP:
ike 0:c49e59846861b0f6/0000000000000000:278:     trans_id = KEY_IKE.
ike 0:c49e59846861b0f6/0000000000000000:278:     encapsulation = IKE/none
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_ENCRYPT_ALG, val=3DES_CBC.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_GROUP, val=MODP2048.
ike 0:c49e59846861b0f6/0000000000000000:278: ISAKMP SA lifetime=86400
...
ike 0:c49e59846861b0f6/0000000000000000:278: my proposal, gw VPN:
ike 0:c49e59846861b0f6/0000000000000000:278: proposal id = 1:
ike 0:c49e59846861b0f6/0000000000000000:278:   protocol id = ISAKMP:
ike 0:c49e59846861b0f6/0000000000000000:278:     trans_id = KEY_IKE.
ike 0:c49e59846861b0f6/0000000000000000:278:     encapsulation = IKE/none
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_ENCRYPT_ALG, val=AES_CBC,
key-len=256
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_GROUP, val=MODP2048.
ike 0:c49e59846861b0f6/0000000000000000:278: ISAKMP SA lifetime=86400
...
ike 0:c49e59846861b0f6/0000000000000000:278: negotiation failure
ike Negotiate ISAKMP SA Error: ike 0:c49e59846861b0f6/0000000000000000:278:
proposal chosen
...
```

Why didn't the tunnel come up?

A. The pre-shared keys do not match.
B. The remote gateway's phase 2 configuration does not match the local gateway's phase 2 configuration.
C. The remote gateway's phase 1 configuration does not match the local gateway's phase 1 configuration.
D. The remote gateway is using aggressive mode and the local gateway is configured to use man mode.

Answer: C

NEW QUESTION 61
Which the following events can trigger the election of a new primary unit in a HA cluster? (Choose two.)

A. Primary unit stops sending HA heartbeat keepalives.
B. The FortiGuard license for the primary unit is updated.
C. One of the monitored interfaces in the primary unit is disconnected.
D. A secondary unit is removed from the HA cluster.

Answer: AC

NEW QUESTION 64
Two independent FortiGate HA clusters are connected to the same broadcast domain. The administrator has reported that both clusters are using the same HA virtual MAC address. This creates a duplicated MAC address problem in the network. What HA setting must be changed in one of the HA clusters to fix the problem?

A. Group ID.
B. Group name.
C. Session pickup.
D. Gratuitous ARPs.

Answer: A

Explanation:
https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA_failoverVMAC.htm

NEW QUESTION 69
Examine the output of the 'get router info bgp summary' command shown in the exhibit; then answer the question below.

```
Student# get router info bgp summary
BGP router indentifier 10.200.1.1, local AS number 65500
BGP table version is 2
1 BGP AS-PATH entries
0 BGP community entries

Neighbor   V     AS   MsgRcvd  MsgSent  TblVer  InQ  OutQ  Up/Down  State/PfxRcd
10.200.3.1 4  65501        92      112       0    0     0    never    Connect

Total number of neighbors 1
```

Which statement can explain why the state of the remote BGP peer 10.200.3.1 is Connect?

A. The local peer is receiving the BGP keepalives from the remote peer but it has not received any BGP prefix yet.
B. The TCP session for the BGP connection to 10.200.3.1 is down.
C. The local peer has received the BGP prefixed from the remote peer.
D. The local peer is receiving the BGP keepalives from the remote peer but it has not received the OpenConfirm yet.

Answer: B

Explanation:
http://www.ciscopress.com/articles/article.asp?p=2756480&seqNum=4

NEW QUESTION 74
Which real time debug should an administrator enable to troubleshoot RADIUS authentication problems?

A. Diagnose debug application radius -1.
B. Diagnose debug application fnbamd -1.
C. Diagnose authd console –log enable.
D. Diagnose radius console –log enable.

Answer: B

Explanation:
https://kb.fortinet.com/kb/documentLink.do?externalID=FD32838

NEW QUESTION 77
Refer to the exhibit, which contains the partial output of a diagnose command.

```
Spoke-2 # dia vpn tunnel list
list all ipsec tunnel in vd 0
------------------------------------------------------------------------------
name=VPN ver=1 serial=1 10.200.5.1:0 -> 10.200.4.1:0
bound_if=3 lgwy=statistic/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refernt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
proxyid=VPN proto=0 sa=1 ref=2 serial=1
     src: 0:10.1.2.0/255.255.255.0:0
     dst: 0:10.1.1.0/255.255.255.0:0
     SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/0B replaywin=204B seqno=1
esn=replaywin_lastseq=00000000
     life: type=01 bytes=0/0 timeout=43177/43200
     dec: spi=ccc1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
          ah=sha1 key=20 c68091d68753578785de6a7a6b276b506e527
```

Based on the output, which two statements are correct? (Choose two.)

A. Anti-replay is enabled.
B. DPD is disabled.
C. Remote gateway IP is 10.200.4.1.
D. Quick mode selectors are disabled.

Answer: AC

NEW QUESTION 82
Which two tasks are automated using the Install Wizard on FortiManager? (Choose two.)

A. Installing configuration changes to managed devices
B. Importing interface mappings from managed devices
C. Adding devices to FortiManager
D. Previewing pending configuration changes for managed devices

Answer: AD

NEW QUESTION 87
What configuration changes can reduce the memory utilization in a FortiGate? (Choose two.)

A. Reduce the session time to live.
B. Increase the TCP session timers.
C. Increase the FortiGuard cache time to live.
D. Reduce the maximum file size to inspect.

Answer: AD

NEW QUESTION 91
Refer to the exhibit, which shows a partial routing table.

```
FGT # get router info routing-table all
...
Routing table for VRF=7
C       10.73.9.0/24 is directly connected, port2

Routing table for VRF=12
C       10.1.0.0/24 is directly connected, port3
S       10.10.4.0/24 [10/0] via 10.1.0.100, port3
C       10.64.1.0/24 is directly connected, port1

Routing table for VRF=21
S       10.1.0.0/24 [10/0] via 10.72.3.254, port4
C       10.72.3.0/24 is directly connected, port4
```

Assuming all the appropriate firewall policies are configured, which two pings will FortiGate route? (Choose two.)

A. Source IP address: 10.1.0.10. Destination IP address: 10.64.1.52
B. Source IPaddress: 10.72.3.52. Destination IP address: 10.1.0.254
C. Source IPaddress: 10.10.4.24, Destination IPaddress: 10.72.3.20
D. Source IPaddress: 10.73.9.10, Destination IPaddress: 10.72.3.15

Answer: AB

NEW QUESTION 92
When using the SSL certificate inspection method for HTTPS traffic, how does FortiGate filter web requests when the browser client does not provide the server

name indication (SNI) extension?

A. FortiGate uses CN information from the Subject field in the server's certificate.
B. FortiGate switches to the full SSL inspection method to decrypt the data.
C. FortiGate blocks the request without any further inspection.
D. FortiGate uses the requested URL from the user's web browser.

Answer: A

NEW QUESTION 93
Which action will FortiGate take when using the default settings for SSL certificate inspection, where the server name indication (SNI) does not match either the common name (CN) or any of the subject altemative names (SAN) in the server certificate?

A. FortiGate uses the CN information from the Subject field in the server certificate.
B. FortiGate uses the first entry listed in the SAN field in the server certificate.
C. FortiGate uses the SNI from the user's web browser.
D. FortiGate closes the connection because this represents an invalid SSL/TLS configuration.

Answer: A

Explanation:
#Config firewall ssl-ssh-profile
edit <profile_name> config https
set sni-server-cert-check [enable* | strict | disable]
Enable: If the SNI does NOT match the CN or SAN fields in the returned server's certificate, FG uses the CN field instead of the SNI to obtain the FQDN.
Strict: If the SNI does NOT match the CN or SAN fields in the returned server's certificate, FG closes the connection.
Disable: FG does not check the SNI.

NEW QUESTION 94
View the exhibit, which contains the output of a debug command, and then answer the question below.

```
# get router info ospf interface port4
port4 is up, line protocol is up
   Internet Address 172.20.121.236/24, Area 0.0.0.0, MTU 1500
   Process ID 0, Router ID 0.0.0.4, Network Type BROADCAST, Cost: 1
   Transmit Delay is 1 sec, State DROther, Priority 1
   Designated Router (ID) 172.20.140.2, Interface Address 172.20.121.2
Backup Designated Router (ID) 0.0.0.1, Interface Address 172.20.121.239
Timer intervals configured, Hello 10.000, Dead 40, Wait 40, Retransmit 5
     Hello due in 00:00:05
   Neighbor Count is 4, Adjacent neighbor count is 2
   Crypt Sequence Number is 411
   Hello received 106, sent 27, DD received 7 sent 9
   LS-Req received 2 sent 2, LS-Upd received 7 sent 5
   LS-Ack received 4 sent 3, Discarded 1
```

Which of the following statements about the exhibit are true? (Choose two.)

A. In the network on port4, two OSPF routers are down.
B. Port4 is connected to the OSPF backbone area.
C. The local FortiGate's OSPF router ID is 0.0.0.4
D. The local FortiGate has been elected as the OSPF backup designated router.

Answer: BC

NEW QUESTION 96
The logs in a FSSO collector agent (CA) are showing the following error: failed to connect to registry: PIKA1026 (192.168.12.232)
What can be the reason for this error?

A. The CA cannot resolve the name of the workstation.
B. The FortiGate cannot resolve the name of the workstation.
C. The remote registry service is not running in the workstation 192.168.12.232.
D. The CA cannot reach the FortiGate with the IP address 192.168.12.232.

Answer: C

Explanation:
https://kb.fortinet.com/kb/documentLink.do?externalID=FD30548

NEW QUESTION 98
A corporate network allows Internet Access to FSSO users only. The FSSO user student does not have Internet access after successfully logged into the Windows AD network. The output of the 'diagnose debug authd fsso list' command does not show student as an active FSSO user. Other FSSO users can access the Internet without problems. What should the administrator check? (Choose two.)

A. The user student must not be listed in the CA's ignore user list.

B. The user student must belong to one or more of the monitored user groups.
C. The student workstation's IP subnet must be listed in the CA's trusted list.
D. At least one of the student's user groups must be allowed by a FortiGate firewall policy.

Answer: AD

Explanation:
https://kb.fortinet.com/kb/documentLink.do?externalID=FD38828

NEW QUESTION 99
Which two configuration commands change the default behavior for content-inspected traffic while FortiGate is in conserve mode? (Choose two.)

A. set av-failopen off
B. set av-failopen pass
C. set fail-open enable
D. set ips fail-open disable

Answer: AC

Explanation:
https://docs.fortinet.com/document/fortigate/7.2.4/administration-guide/194558/conserve-mode

NEW QUESTION 103
Which three conditions are required for two FortiGate devices to form an OSPF adjacency? (Choose three.)

A. OSPF interface network types match.
B. OSPF router IDs are unique.
C. OSPF interface priority settings are unique.
D. Authentication settings match.
E. OSPF link costs match.

Answer: ABD

Explanation:
Enterprise_Firewall_7.0_Study_Guide-Online.pdf p 280

NEW QUESTION 105
View the exhibit, which contains the partial output of an IKE real-time debug, and then answer the question below.

```
ike 0:9268ab9dea63aa3/0000000000000000:591: responder: main mode get 1st message…
…
ike 0:9268ab9dea63aa3/0000000000000000:591: incoming proposal:
ike 0:9268ab9dea63aa3/0000000000000000:591: proposal id = 0:
ike 0:9268ab9dea63aa3/0000000000000000:591:     protocol id = ISAKMP:
ike 0:9268ab9dea63aa3/0000000000000000:591:       trans_id = KEY_IKE.
ike 0:9268ab9dea63aa3/0000000000000000:591:       encapsulation = IKE/none
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=OAKLEY_ENCRYPT_ALG, val=3DES_CBC.
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=OAKLEY_GROUP, val=MODP1536.
ike 0:9268ab9dea63aa3/0000000000000000:591: ISAKMP SA lifetime=86400
ike 0:9268ab9dea63aa3/0000000000000000:591: proposal id=0:
ike 0:9268ab9dea63aa3/0000000000000000:591:   protocol id = ISAKMP:
ike 0:9268ab9dea63aa3/0000000000000000:591:     trans_id = KEY_IKE.
ike 0:9268ab9dea63aa3/0000000000000000:591:     encapsulation = IKE/none
ike 0:9268ab9dea63aa3/0000000000000000:591:       type=OAKLEY_ENCRYPT_ALG, val=3DES_CBC.
ike 0:9268ab9dea63aa3/0000000000000000:591:       type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:9268ab9dea63aa3/0000000000000000:591:       type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:9268ab9dea63aa3/0000000000000000:591:      type=OAKLEY_GROUP, val=MODP1536.
ike 0:9268ab9dea63aa3/0000000000000000:591: ISA KMP SA lifetime=86400
ike 0:9268ab9dea63aa3/0000000000000000:591: my proposal, gw VPN:
ike 0:9268ab9dea63aa3/0000000000000000:591:   proposal id = 1:
ike 0:9268ab9dea63aa3/0000000000000000:591:     protocol id = ISAKMP:
ike 0:9268ab9dea63aa3/0000000000000000:591:       trans_id = KEY_IKE.
ike 0:9268ab9dea63aa3/0000000000000000:591:       encapsulation = IKE/none
ike 0:9268ab9dea63aa3/0000000000000000:591:           type=OAKLEY_ENCRYPT_ALG, val=AES_CBC,
key-len=128
ike 0:9268ab9dea63aa3/0000000000000000:591:           type=OAKLEY_HASH_ALG, val=SHA2_512.
ike 0:9268ab9dea63aa3/0000000000000000:591:           type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:9268ab9dea63aa3/0000000000000000:591:           type=OAKLEY_GROUP, val=MODP2048.
ike 0:9268ab9dea63aa3/0000000000000000:591: ISAKMP SA lifetime=86400
ike 0:9268ab9dea63aa3/0000000000000000:591: proposal id = 1:
ike 0:9268ab9dea63aa3/0000000000000000:591:    protocol_id = ISAKMP:
ike 0:9268ab9dea63aa3/0000000000000000:591:      trans_id = KEY_IKE.
ike 0:9268ab9dea63aa3/0000000000000000:591:      encapsulation = IKE/none
ike 0:9268ab9dea63aa3/0000000000000000:591:          type=OAKLEY_ENCRYPT_ALG, val=AES_CBC,
key-len=128
ike 0:9268ab9dea63aa3/0000000000000000:591:          type=OAKLEY_HASH_ALG, val=SHA2_512.
ike 0:9268ab9dea63aa3/0000000000000000:591:          type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:9268ab9dea63aa3/0000000000000000:591:          type=OAKLEY_GROUP, val=MODP2048.
ike 0:9268ab9dea63aa3/0000000000000000:591: ISAKMP SA lifetime=86400
ike 0:9268ab9dea63aa3/0000000000000000:591: proposal id = 1:
ike 0:9268ab9dea63aa3/0000000000000000:591:    protocol id = ISAKMP:
ike 0:9268ab9dea63aa3/0000000000000000:591:      trans_id = ISAKMP:
ike 0:9268ab9dea63aa3/0000000000000000:591:      encapsulation = IKE/none
ike 0:9268ab9dea63aa3/0000000000000000:591:         type= OAKLEY_ENCRYPT_ALG, val =AES-CBC,
key-len=128
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=OAKLEY_HASH_ALG, val=SHA2_512.
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:9268ab9dea63aa3/0000000000000000:591:         type=OAKLEY_GROUP, val=MODP1536.
ike 0:9268ab9dea63aa3/0000000000000000:591: ISAKMP SA lifetime=86400
```

The administrator does not have access to the remote gateway. Based on the debug output, what configuration changes can the administrator make to the local gateway to resolve the phase 1 negotiation error?

A. Change phase 1 encryption to 3DES and authentication to SHA128.
B. Change phase 1 encryption to AES128 and authentication to SHA512.
C. Change phase 1 encryption to AESCBC and authentication to SHA2.
D. Change phase 1 encryption to AES256 and authentication to SHA256.

Answer: D

NEW QUESTION 106
Which statement about memory conserve mode is true?

A. A FortiGate exits conserve mode when the configured memory use threshold reaches yellow.
B. A FortiGate starts dropping all the new and old sessions when the configured memory use threshold reaches extreme.
C. A FortiGate starts dropping new sessions when the configured memory use threshold reaches red
D. A FortiGate enters conserve mode when the configured memory use threshold reaches red

Answer: D

NEW QUESTION 111
Refer to exhibit, which contains the output of a BGP debug command.

```
FGT # get router info bgp summary
BGP router identifier 10.200.1.1, local AS number 655
BGP table version is 2
1 BGP AS-PATH entries
0 BGP community entries

Neighbor        V    AS         MsgRcvd MsgSent    TblVe
10.200.3.1      4 65501         92      1756        0

Total number of neighbors 1
```

Which statement explains why the state of the 10.200.3.1 peer is Connect?

A. The local router is receiving BGP keepalives from the remote peer, but the local peer has not received the OpenConfirm yet.
B. The TCP session to 10.200.3.1 has not completed the three-way handshake.
C. The local router is receiving the BGP keepalives from the peer, but it has not received a BGP prefix yet.
D. The local router has received the BGP prefixes from the remote peer.

Answer: B

Explanation:
BGP neighbor states and how they change:• Idle: Initial state• Connect: Waiting for a successful three-way TCP connection• Active: Unable to establish the TCP session• OpenSent: Waiting for an OPEN message from the peer• OpenConfirm: Waiting for the keepalive message from the peer• Established: Peers have successfully exchanged OPEN and keepalive messages

NEW QUESTION 115
Refer to the exhibit, which shows the output of a diagnose command.

```
# diagnose sys session list expectation

session info: proto=6 proto_state=00 duration=3 expire=26 timeout=3600 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
ha_id=0 policy_dir=1 tunnel=/
state=new complex
statistic(bytes/packets/allow_err): org=0/0/0 reply=0/0/0 tuples=2
orgin->sink: org pre->post, reply pre->post dev=2->4/4->2 gwy=10.0.1.10/10.200.1.254
hook=pre dir=org act=dnat 10.171.121.38:0->10.200.1.1:60426(10.0.1.10:50365)
hook=pre dir=org act=noop 0.0.0.0:0->0.0.0.0:0(0.0.0.0:0)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=000000e9 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

What can you conclude from the output shown in the exhibit? (Choose two.)

A. This is a pinhole session created to allow traffic for a protocol that requires additional sessions to operate through FortiGate.
B. This is an expected session created by the IPS engine.
C. Traffic in the original direction (coming from the IP address 10.171.121.38) will be routed to the next-hop IP address 10.200.1.1.
D. Traffic in the original direction (coming from the IP address 10.171.121.38) will be routed to thenext-hop IP address 10.0.1.10.

Answer: AD

Explanation:
Enterprise_Firewall_7.0_Study_Guide-Online.pdf p 110, 111, 115

NEW QUESTION 119
View the exhibit, which contains the output of a web diagnose command, and then answer the question below.

```
# diagnose webfilter fortiguard statistics list

Raring Statistics:
==================================
DNS filures                    :    273
DNS lookups                    :    280
Data send failures             :      0
Data read failures             :      0
Wrong package type             :      0
Hash table miss                :      0
Unknown server                 :      0
Incorrect CRC                  :      0
Proxy requests failures        :      0
Request timeout                :      1
Total requests                 :   2409
Requests to FortiGuard servers :   1182
Server errored responses       :      0
Relayed rating                 :      0
Invalid profile                :      0

Allowed                        :   1021
Blocked                        :   3909
Logged                         :   3927
Blocked Errors                 :    565
Allowed Errors                 :      0
Monitors                       :      0
Authenticates                  :      0
Warnings                       :     18
Ovrd request timeout           :      0
Ovrd send failures             :      0
Ovrd read failures             :      0
Ovrd errored responses         :      0
...
```

```
# diagnose webfilter fortiguard statistics list

Cache Statistics:
==========================
Maximum memory                 :      0
Memory usage                   :      0

Nodes                          :      0
  Leaves                       :      0
  Prefix nodes                 :      0
  Exact nodes                  :      0

Requests                       :      0
Misses                         :      0
Hits                           :      0
  Prefix hits                  :      0
  Exact hits                   :      0

No cache directives            :      0
Add after prefix               :      0
Invalid DB put                 :      0
DB updates                     :      0

Percent full                   :     0%
  Branches                     :     0%
  Leaves                       :     0%
    Prefix nodes               :     0%
    Exact nodes                :     0%

Miss rate                      :     0%
Hit rate                       :     0%
  Prefix hits                  :     0%
  Exact hits                   :     0%
```

Which one of the following statements explains why the cache statistics are all zeros?

A. The administrator has reallocated the cache memory to a separate process.
B. There are no users making web requests.
C. The FortiGuard web filter cache is disabled in the FortiGate's configuration.
D. FortiGate is using a flow-based web filter and the cache applies only to proxy-based inspection.

Answer: C

NEW QUESTION 123
Which two statements about an auxiliary session are true? (Choose two.)

A. With the auxiliary session setting disabled, only auxiliary sessions are offloaded.
B. With the auxiliary session setting enabled, two sessions are created in case of routing change.
C. With the auxiliary session setting enabled, ECMP traffic is accelerated to the NP6 processor.
D. With the auxiliary session setting disabled, for each traffic path, FortiGate uses the same auxiliary session.

Answer: BC

NEW QUESTION 127
An administrator has configured two FortiGate devices for an HA cluster. While testing the HA failover, the administrator noticed that some of the switches in the network continue to send traffic to the former primary unit. The administrator decides to enable the setting link-failed-signal to fix the problem. Which statement is correct regarding this command?

A. Forces the former primary device to shut down all its non-heartbeat interfaces for one second while the failover occurs.
B. Sends an ARP packet to all connected devices, indicating that the HA virtual MAC address is reachable through a new master after a failover.
C. Sends a link failed signal to all connected devices.
D. Disables all the non-heartbeat interfaces in all the HA members for two seconds after a failover.

Answer: A

NEW QUESTION 130
Which two statements about the Security Fabric are true? (Choose two.)

A. Only the root FortiGate collects network topology information and forwards it to FortiAnalyzer.
B. Only the root FortiGate sends logs to FortiAnalyzer.

C. Only FortiGate devices with fabric-object-unification set to default will receive and synchronize global CMDB objects sent by the root FortiGate.
D. FortiGate uses FortiTelemetry protocol to communicate with FortiAnalyzer.

Answer: AC

Explanation:
FortiGate's to Root uses FortiTelemetry (TCP-8013) FortiTelemetry is also used for FortiClient communication Root Fortigate to FortiAnalyzer uses API (TCP-443)

NEW QUESTION 134
Refer to the exhibit, which contains the output of the diagnose vpn tunnel list. Which command will capture ESP traffic for the VPN named DialUp_0?

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

Answer: D

NEW QUESTION 137
Refer to the exhibit, which contains partial outputs from two routing debug commands.

```
FortiGate # get router into routing-table database

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

FortiGate # get router info routing-table all

S*   0.0.0.0/0 [10/0] via 100.64.1.254, port1
```

Why is the port2 default route not in the second command's output?

A. It has a higher priority value than the default route using port1.
B. It is disabled in the FortiGate configuration.
C. It has a lower priority value than the default route using port1.
D. It has a higher distance than the default route using port1.

Answer: D

NEW QUESTION 140
Which two statements about application-layer test commands are true? (Choose two.)

A. Some of them display real-time application debugs.
B. Some of them can be used to restart an application.
C. Some of them display statistics and configuration information about a feature or process.
D. Some of them only display output, after you run the diagnose debug console enable command.

Answer: BC

NEW QUESTION 145
An administrator has been assigned the task of creating a set of firewall policies which must be evaluated before any custom policies defined within the policy packages of managed FortiGate devices, across all 25 ADOMSs in FortiManager.
How should the administrator accomplish this task?

A. Create a footer policy in the Global ADOM containing the firewall policies that must be evaluated first, and then assign this footer policy to all other ADOMs.
B. Create a header policy in the Global ADOM containing the firewall policies that must be evaluated first, and then assign this header policy to all other ADOMs.
C. Move the FortiGate devices into a single globally scoped ADOM, and merge policy packages, inserting the new firewall policies at the top.
D. Use a CLI script from the root ADOM on FortiManager to push these new policies to all FortiGate devices, through the FGFM tunnel.

Answer: B

Explanation:
Enterprise_Firewall_7.0_Study_Guide-Online.pdf p 244

NEW QUESTION 147
What is the purpose of an internal segmentation firewall (ISFW)?

A. It inspects incoming traffic to protect services in the corporate DMZ.
B. It is the first line of defense at the network perimeter.
C. It splits the network into multiple security segments to minimize the impact of breaches.
D. It is an all-in-one security appliance that is placed at remote sites to extend the enterprise network.

Answer: C

Explanation:

ISFW splits your network into multiple security segments. They serve as a breach containers from attacks that come from inside.

NEW QUESTION 150
A FortiGate device has the following LDAP configuration:

```
config user ldap
   edit "WindowsLDAP"
     set server "10.0.1.10"
     set cnid "cn"
     set dn "cn=user, dc=trainingAD, dc=training, dc=lab"
     set type regular
     set username "cn=administrator, cn=users, dc=trainingAD,
dc=training, dc=lab"
     set password xxxxx
   next
end
```

The LDAP user student cannot authenticate. The exhibit shows the output of the authentication real time debug while testing the student account:

```
#diagnose debug application fnbamd -1
#diagnose debug enable
#diagnose test authserver ldap WindowsLDAP student password
fnbamd_fsm.c[1819] handle_req-Rcvd auth req 4 for student in WindowsLDAP
opt=27 prot=0
fnbamd_fsm.c[336]_compose _group_list_from_req_Group 'WindowsLDAP'
fnbamd_pop3.c[573] fnband_pop3_start-student
fnbamd_cfg.c[932] fnbamd_cfg-get_ldap_:ist_by_server-Loading LDAP server
'WindowsLDAP'
fnbamd_ldap.c[992] resolve_ldap_FQDN-Resolved address 10.0.1.10, result 10.0.1.10
fnbamd_fsm.c[428] create_ auth_session-Total 1 server (s) to try
fnbamd_ldap.c[1700] fnbamd_ldap_get_result-Error in ldap result: 49
(Invalid credentials)
fnbamd_ldap.c[2028] fnbamd_ldap_get_result-Auth denied
fnbamd_auth.c[2188] fnbamd_auth_poll_ldap-Result for ldap svr 10.0.1.10 is denied
fnbamd_comm.c[169] fnbamd_comm_send_result-Sending result 1 for req 4
fnbamd_fsm.c[568] destroy_auth_session-delete session 4
authenticate 'student' against 'WindowsLDAP' failed!
```

Based on the above output, what FortiGate LDAP settings must the administer check? (Choose two.)

A. cnid.
B. username.
C. password.
D. dn.

Answer: BC

Explanation:
https://kb.fortinet.com/kb/viewContent.do?externalId=13141

NEW QUESTION 154
An administrator has enabled HA session synchronization in a HA cluster with two members. Which flag is added to a primary unit's session to indicate that it has been synchronized to the secondary unit?

A. redir.
B. dirty.
C. synced
D. nds.

Answer: C

Explanation:
The synced sessions have the 'synced' flag. The command 'diag sys session list' can be used to see the sessions on the member, with the associated flags.

NEW QUESTION 157
Which two conditions would prevent a static route from being added to the routing table? (Choose two.)

A. There is another other route to the same destination, with a lower distance.

B. The route has a lower priority value than another route to the same destination.
C. The next-hop IP address is unreachable.
D. The interface specified in the route configuration is down

Answer: AD

Explanation:
The routing table contains only the static route with the lowest distance https://community.fortinet.com/t5/FortiGate/Technical-Note-Routing-behavior-depending-on-distance-and/ta-p/

NEW QUESTION 158
Refer to the exhibit, which shows the output of diagnose sys session stat.

```
NGFW-1 # diagnose sys session stat
misc info:       session_count=591 setup_rate=0 exp_count=0 clash=162
        memory_tension_drop=0 ephemeral=0/65536 removeable=0
delete=0, flush=0, dev_down=0/0 ses_walkers=0
TCP sessions:
         166 in NONE state
         1 in ESTABLISHED state
         3 in SYN_SENT state
         2 in TIME_WAIT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000006
fqdn6_count=00000000
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0
```

Which statement about the output shown in the exhibit is correct?

A. There are two sessions that have not been removed in case of any out-of-order packets that arrive.
B. There are 166 TCP sessions waiting to complete the three-way handshake.
C. 162 sessions have been deleted because of memory page exhaustion.
D. All the sessions in the session table are TCP sessions.

Answer: A

NEW QUESTION 161
View the exhibit, which contains the output of get sys ha status, and then answer the question below.

```
NGFW # get sys ha status
HA Health Status: ok
Model: FortiGate0VM64
Mode: HA A-P
Group: 0
Debug: 0
Cluster Uptime: 0 days 01:07:35
Master selected using:
  <2017/04/24 09:43:44> FGVM010000077649 is selected as the master because it has the largest value of override pr
  <2017/04/24 08:50:53> FGVM010000077 is selected as the master because it's the only member in the cluster.
ses_pickup: disable
override: enable
Configuration Status:
  FGVM010000077649(updated 1 seconds ago): in-sync
  FGVM010000077650(updated 0 seconds ago): out-of-sync
System Usage stats:
  FGVM010000077649(updated 1 seconds ago):
     sessions=30, average-cpu-user/nice/system/idle=0%/0%/0%/100%, memory-60%
  FGVM010000077650(updated 0 seconds ago):
     sessions=2, average-cpu-user/nice/system/idle=0%/0%/0%/100%, memory-61%
HBDEV stats:
  FGVM010000077649(updated 1 seconds ago):
     port7: physical/10000full, up, rx-bytes/packets/dropped/errors=7358367/17029/25/0, tx=7721830/17182/0/0
  FGVM010000077650(updated 0 seconds ago):
     port7: physical/10000full, up, rx-bytes/packets/dropped/errors=7793722/17190/0/0, tx=8940374/20806/0/0
Master: NGFW        , FGVM010000077649
Slave : NGFW-2      , FGVM010000077650
number of vcluster: 1
vcluster 1: work 169.254.0.2
Master:0 FGVM0100000077649
Slave :1 FGVM0100000077650
```

Which statements are correct regarding the output? (Choose two.)

A. The slave configuration is not synchronized with the master.
B. The HA management IP is 169.254.0.2.
C. Master is selected because it is the only device in the cluster.
D. port 7 is used the HA heartbeat on all devices in the cluster.

Answer: AD

NEW QUESTION 163
Examine the following partial output from two system debug commands; then answer the question below.

```
# diagnose hardware sysinfo memory
MemTotal: 3092728 kB
MemFree: 1954204 kB
MemShared: 0 kB
Buffers: 284 kB
Cached: 143004 kB
SwapCached: 0 kB
Active: 34092 kB
Inactive: 109256 kB
HighTotal 1179648 kB
HighFree: 853516 kB
LowTotal: 1913080 kB
LowFree: 1100688 kB
SwapTotal: 0 kB
SwapFree: 0 kB
# diagnose hardware sysinfo shm
SHM counter: 285
SHM allocated: 6823936
SHM total: 623452160
concervemode: 0
shm last entered: n/a
system last entered: n/a
SHM FS total: 639725568
SHM FS free: 632614912

SHM FS alloc: 7110656
```

Which of the following statements are true regarding the above outputs? (Choose two.)

A. The unit is running a 32-bit FortiOS

B. The unit is in kernel conserve mode
C. The Cached value is always the Active value plus the Inactive value
D. Kernel indirectly accesses the low memory (LowTotal) through memory paging

Answer: AC

NEW QUESTION 165
Which two tasks are automated using the Import Configuration wizard on FortiManager? (Choose two.)

A. Importing firewall address objects from managed devices
B. Importing interface mappings from managed devices
C. Importing static and dynamic route configurations from managed devices
D. Importing devices to FortiManager

Answer: AB

Explanation:
https://docs.fortinet.com/document/fortimanager/7.0.5/administration-guide/337348

NEW QUESTION 169
What does the dirty flag mean in a FortiGate session?

A. Traffic has been blocked by the antivirus inspection.
B. The next packet must be re-evaluated against the firewall policies.
C. The session must be removed from the former primary unit after an HA failover.
D. Traffic has been identified as from an application that is not allowed.

Answer: B

Explanation:
https://kb.fortinet.com/kb/viewContent.do?externalId=FD40119&sliceId=1

NEW QUESTION 172
An administrator has configured two FortiGate devices for an HA cluster. While testing HA failover, the
administrator notices that some of the switches in the network continue to send traffic to the former primary device. The administrator decides to enable the setting link-failed-signal to fix the problem.
Which statement about this setting is true?

A. It sends an ARP packet to all connected devices, indicating that the HA virtual MAC address is reachable through a new master after a failover.
B. It sends a link failed signal to all connected devices.
C. It disabled all the non-heartbeat interfaces in all HA members for two seconds after a failover.
D. It forces the former primary device to shut down all its non-heartbeat interfaces for one second, while the failover occurs.

Answer: D

NEW QUESTION 177
Examine the output of the 'diagnose sys session list expectation' command shown in the exhibit; than answer the question below.

```
#diagnose sys session list expectation

session info: proto= proto_state=0 0 duration=3 expire=26 timeout=3600
flags=00000000
sockflag=·00000000·sockport=0·av_idx=0·use=3¶
origin-shaper=¶
reply-shaper=¶
per-ip_shaper=¶
ha_id=0·policy_dir=1·tunnel=/¶
state=new complex
statistic (bytes/packets/allow_err): org=0/0/0 reply=0/0/0 tuples=2
orgin-> sink: org pre-> post, reply pre->post dev=2->4/4->2
gwy=10.0.1.10/10.200.1.254
hook=pre dir=org act=dnat 10.171.121.38:0-> 10.200.1.1: 60426
(10.0.1.10: 50365)¶
hook= pre dir=org act=noop 0.0.0.0.:0-> 0.0.0.0:0 (0.0.0.0:0)
pos/(before, after) 0/(0,0), 0/(0,0)
misc=0·policy_id=1·auth_info=0·chk_client_info=0·vd=0
serial1=000000e9·tos=ff/ff·ips_view=0 app_list=0·app=0
dd type=0·dd_mode=0¶
```

Which statement is true regarding the session in the exhibit?

A. It was created by the FortiGate kernel to allow push updates from FotiGuard.
B. It is for management traffic terminating at the FortiGate.
C. It is for traffic originated from the FortiGate.
D. It was created by a session helper or ALG.

Answer: D

NEW QUESTION 179
View the exhibit, which contains the output of a diagnose command, and the answer the question below.

```
# diagnose debug rating
Locale       : English
License      : Contract
Expiration   : Thu Sep 28 17:00:00 20XX
-=- Server List (Thu APR 19 10:41:32 20XX) -=-
IP               Weight   RTT   Flags   TZ   Packets  Curr Lost  Total Lost
64.26.151.37     10       45            -5    262432  0           846
64.26.151.35     10       46            -5    329072  0           6806
66.117.56.37     10       75            -5    71638   0           275
66.210.95.240    20       71            -8    36875   0           92
209.222.147.36   20       103    DI     -8    34784   0           1070
208.91.112.194   20       107    D      -8    35170   0           1533
96.45.33.65      60       144           0     33728   0           120
80.85.69.41      71       226           1     33797   0           192
62.209.40.74     150      97            9     33754   0           145
121.111.236.179  45       44     F      -5    26410   26226       26227
```

Which statements are true regarding the Weight value?

A. Its initial value is calculated based on the round trip delay (RTT).
B. Its initial value is statically set to 10.
C. Its value is incremented with each packet lost.
D. It determines which FortiGuard server is used for license validation.

Answer: C

NEW QUESTION 184
.....

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