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
Examine the output from the BGP real time debug shown in the exhibit, then the answer the question below:

```
#  diagnose ip router bgp all enable
#  diagnose ip router bgp level info
#  diagnose debug enable
"BGP: 10.200.3.1-Outgoing [DECODE] KAlive: Received!"
"BGP: 10.200.3.1-Outgoing [FSM] State: OpenConfirm Event: 26"
"BGP: 10.200.3.1-Outgoing [DECODE] Msg-Hdr: type 2, length 56"
"BGP: 10.200.3.1-Outgoing [DECODE] Update: Starting UPDATE decoding... Byt
(37), msg_size (37)"
"BGP: 10.200.3.1-Outgoing [DECODE] Update: NLRI Len(13)"
"BGP: 10.200.3.1-Outgoing [FSM] State: Established Event: 27"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 0.0.0.0/0"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 10.200.4.0/24"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 10.200.3.0/24"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 10.0.2.0/24"
"BGP: 10.200.3.1-Outgoing [FSM] State: Established Event: 34"
"BGP: 10.200.3.1-Outgoing [ENCODE] Msg-Hdr: Type 2"
"BGP: 10.200.3.1-Outgoing [ENCODE] Attr IP-Unicast: Tot-attr-len 20"
"BGP: 10.200.3.1-Outgoing [ENCODE] Update: Msg #5 Size 55"
"BGP: 10.200.3.1-Outgoing [FSM] State: Established Event: 34"
```

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

A. BGP peers have successfully interchanged Open and Keepalive messages.
B. Local BGP peer received a prefix for a default route.
C. The state of the remote BGP peer is OpenConfirm.
D. The state of the remote BGP peer will go to Connect after it confirms the received prefixes.

Answer: AB

NEW QUESTION 3
Which two statements about bulk configuration changes made using FortiManager CLI scripts are correct? (Choose two.)

A. When run on the Device Database, you must use the installation wizard to apply the changes to the managed FortiGate device.
B. When run on the Remote FortiGate directly, administrators do not have the option to review the changes prior to installation.
C. When run on the All FortiGate in ADOM, changes are automatically installed without the creation of a new revision history.
D. When run on the Policy Package, ADOM database, changes are applied directly to the managed FortiGate device.

Answer: AB

NEW QUESTION 4
Which ADVPN configuration must be configured using a script on FortiManager, when using VPN Manager to manage FortiGate VPN tunnels?

A. Set protected network to all
B. Enable AD-VPN in IPsec phase 1
C. Configure IP addresses on IPsec virtual interfaces
D. Disable add-route on hub

Answer: B

NEW QUESTION 5
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 6
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 7
Which two statements about the Security Fabric are true? (Choose two.)

A. Only the root FortiGate collects network information and forwards it to FortiAnalyzer.
B. FortiGate uses FortiTelemetry protocol to communicate with FortiAnalyzer.
C. All FortiGate devices in the Security Fabric must have bidirectional FortiTelemetry connectivity.
D. Branch FortiGate devices must be configured first.

Answer: BC

NEW QUESTION 8
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 9
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 10
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 10
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 14

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 16
Refer to the exhibit, which contains the partial output of the get vpn ipsec tunnel details command.

```
Hub # get vpn ipsec tunnel details
gateway
  name: 'Hub2Spoke1'
  type: route-based
  local-gateway: 10.10.1.1:0 (static)
  remote-gateway: 10.10.2.2:0 (static)
  mode: ike-v1
  interface: 'wan2' (6)
  rx  packets: 1025  bytes: 524402  errors: 0
  tx  packets: 641  bytes: 93  errors: 0
  dpd: on-demand/negotiated  idle: 20000ms  retry: 3  count: 0
  selectors
    name: 'Hub2Spoke1'
    auto-negotiate: disable
    mode: tunnel
    src: 0:192.168.1.0/0.0.0.0:0
    dst: 0:10.10.20.0/0.0.0.0:0
    SA
      lifetime/rekey: 43200/32137
      mtu: 1438
      tx-esp-seq: 2ce
      replay: enabled
      inbound
        spi: 01e54b14
        enc:  aes-cb  914dc5d092667ed436ea7f6efb867976
        auth:   sha1  a81b019d4cdfda32ce51e6b01d0b1ea42a74adce
      outbound
        spi: 3dd3545f
        enc:  aes-cb  017b8ff6c4ba21eac99b22380b7de74d
        auth:   sha1  edd8141f4956140eef703d9042621d3dbf5cd961
      NPU acceleration: encryption(outbound) decryption(inbound)
```

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

A. The npu_flag for this tunnel is 03.
B. Different SPI values are a result of auto-negotiation being disabled for phase 2 selectors.
C. Anti-replay is enabled.
D. The npu_flag for this tunnel is 02.

Answer: AC

NEW QUESTION 21
Refer to the exhibit, which shows a session entry. Which statement about this session is true?

```
session info: proto=1 proto_state=00 duration=1 expire=59 timeout
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 tup
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.
hook=post dir=org act=snat 10.1.10.10:40602->10.200.5.1:8(10.200.
hook=pre dir=reply act=dnat 10.200.5.1:60430->10.200.1.1:0(10.1.1
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
```

A. It is an ICMP session from 10.1.10.10 to 10.200.5. 1.
B. It is a TCP session in close_wait state, from 10.
C. 10.10 to 10.200.1.1.

D. It is an ICMP session from 10.1.10.10 to 10.200.1.1.
E. It is a TCP session in the established state, from 10.1.10.10 to 10.200.5.1.

Answer: A

Explanation:
https://community.fortinet.com/t5/FortiGate/Troubleshooting-Tip-FortiGate-session-table-information/ta-p/1969

NEW QUESTION 22
Refer to the exhibit, which shows the output of a debug command.

```
FGT # 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 6 sent 3
  LS-Req received 2 sent 2, LS-Upd received 7 sent 17
  LS-Ack received 4 sent 3, Discarded 1
```

Which two statements about the output are true? (Choose two.)

A. In the network connected to port 4, two OSPF routers are down.
B. Based on the network type of port 4, OSPF hello packets will be sent to 224.0.0.5.
C. Based on the network type of port 4, OSPF hello packets will be sent to 224.0.0.6.
D. There are a total of 5 OSPF routers attached to the Port4 network segment.

Answer: BD

NEW QUESTION 26
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 28
View the exhibit, which contains the output of a debug command, and then answer the question below.

```
# diagnose hardware sysinfo conserve
memory conserve mode:                    on
total RAM:                            3040 MB
memory used:                          2706 MB 89% of total RAM
Memory freeable:                       334 MB 11% of total RAM
memory used + freeable threshold extreme:  2887 MB 95% of total RAM
memory used threshold red:            2675 MB 88% of total RAM
memory used threshold green:          2492 MB 82% of total RAM
```

Which one of the following statements about this FortiGate is correct?

A. It is currently in system conserve mode because of high CPU usage.
B. It is currently in extreme conserve mode because of high memory usage.
C. It is currently in proxy conserve mode because of high memory usage.
D. It is currently in memory conserve mode because of high memory usage.

Answer: D

NEW QUESTION 30
Which statement about the designated router (DR) and backup designated router (BDR) in an OSPF multi-access network is true?

A. Only the DR receives link state information from non-DR routers.
B. Non-DR and non-BDR routers form full adjacencies to DR only.
C. Non-DR and non-BDR routers send link state updates and acknowledgements to 224.0.0.6.
D. FortiGate first checks the OSPF ID to elect a DR.

Answer: C

Explanation:
Some special IP multicast addresses are reserved for OSPF: 224.0.0.5: All OSPF routers must be able to transmit and listen to this address. 224.0.0.6: All DR and BDR routers must be able to transmit and listen to this address. https://www.cisco.com/c/en/us/support/docs/ip/open-shortest-path-first-ospf/7039-1.html

NEW QUESTION 32
Refer to the exhibit, which shows a FortiGate configuration.

```
config system fortiguard
    set protocol udp
    set port 8888
    set load-balance-servers 1
    set auto-join-forticloud enable
    set update-server-location any
    set sandbox-region ''
    set fortiguard-anycast disable
    set antispam-force-off disable
    set antispam-cache enable
    set antispam-cache-ttl 1800
    set antispam-cache-mpercent 2
    set antispam-timeout 7
    set webfilter-force-off enable
    set webfilter-cache enable
    set webfilter-cache-ttl 3600
    set webfilter-timeout 15
    set sdns-server-ip "208.91.112.220"
    set sdns-server-port 53
    unset sdns-options
    set source-ip 0.0.0.0
    set source-ip6 ::
    set proxy-server-ip 0.0.0.0
    set proxy-server-port 0
    set proxy-username ''
    set ddns-server-ip 0.0.0.0
    set ddns-server-port 443
end
```

An administrator is troubleshooting a web filter issue on FortiGate. The administrator has configured a web filter profile and applied it to a policy; however, the web filter is not inspecting any traffic that is passing through the policy.
What must the administrator change to fix the issue?

A. Increase webfilter-timeout.
B. Change protocol to TCP.
C. Enable fortiguard-anycast.
D. Disable webfilter-force-off.

Answer: D

NEW QUESTION 36
Refer to the exhibit, which shows the output of a web filtering diagnose command.

```
# diagnose webfilter fortiguard statistics list

Rating Statistics:
==================
DNS failures                    :        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 request 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 configuration change would result in non-zero results in the cache statistics section?

A. set server-type rating under config system central-management
B. set webfilter-cache enable under config system fortiguard
C. set webfilter-force-off disable under config system fortiguard
D. set ngfw-mode policy-based under config system settings

Answer: B

Explanation:
Enterprise_Firewall_7.0_Study_Guide-Online.pdf p 362

NEW QUESTION 38
Which two tasks are automated using the Install Wizard on FortiManager? (Choose two.)

A. Preview pending configuration changes for managed devices.
B. Add devices to FortiManager.
C. Import policy packages from managed devices.
D. Install configuration changes to managed devices.
E. Import interface mappings from managed devices.

Answer: AD

Explanation:
https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager_Admin_Guide/1000_Device%20Manager/1200_ins
There are 4 main wizards:Add Device: is used to add devices to central management and import their configurations.
Install: is used to install configuration changes from Device Manager or Policies & Objects to the managed devices. It allows you to preview the changes and, if the administrator doesn't agree with the changes, cancel and modify them.
Import policy: is used to import interface mapping, policy database, and objects associated with the managed devices into a policy package under the Policy & Object tab. It runs with the Add Device wizard by default and may be run at any time from the managed device list.
Re-install policy: is used to perform a quick install of the policy package. It doesn't give the ability to preview the changes that will be installed to the managed device.

NEW QUESTION 40
Which statement about the designated router (DR) and backup designated router (BDR) in an OSPF multi-access network is true?

A. FortiGate first checks the OSPF ID to elect a DR.
B. Non-DR and non-BDR routers will form full adjacencies to DR and BDR only.
C. BDR is responsible for forwarding link state information from one router to another.
D. Only the DR receives link state information from non-DR routers.

Answer: B

NEW QUESTION 41
Which two statements about conserve mode are true? (Choose two.)

A. FortiGate starts taking the configured action for new sessions requiring content inspection when the system memory reaches the configured red threshold.
B. FortiGate starts dropping all new sessions when the system memory reaches the configured redthreshold.
C. FortiGate enters conserve mode when the system memory reaches the configured extreme threshold.
D. FortiGate exits conserve mode when the system memory goes below the configured green threshold.

Answer: AD

NEW QUESTION 44
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 48
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 51
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 56
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 57
View the exhibit, which contains the partial output of a diagnose command, and then answer the question below.

```
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=20000 ms 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: 0:10.1.2.0/255.255.0:0
  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 key20 889f7529887c215c25950be2ba83e6fe1a5367be
  dec:pkts/bytes=0/0, enc:pkts/bytes=0/0
```

Based on the output, which of the following statements is correct?

A. Anti-reply is enabled.
B. DPD is disabled.
C. Quick mode selectors are disabled.
D. Remote gateway IP is 10.200.5.1.

Answer: A

NEW QUESTION 60
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 63
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.

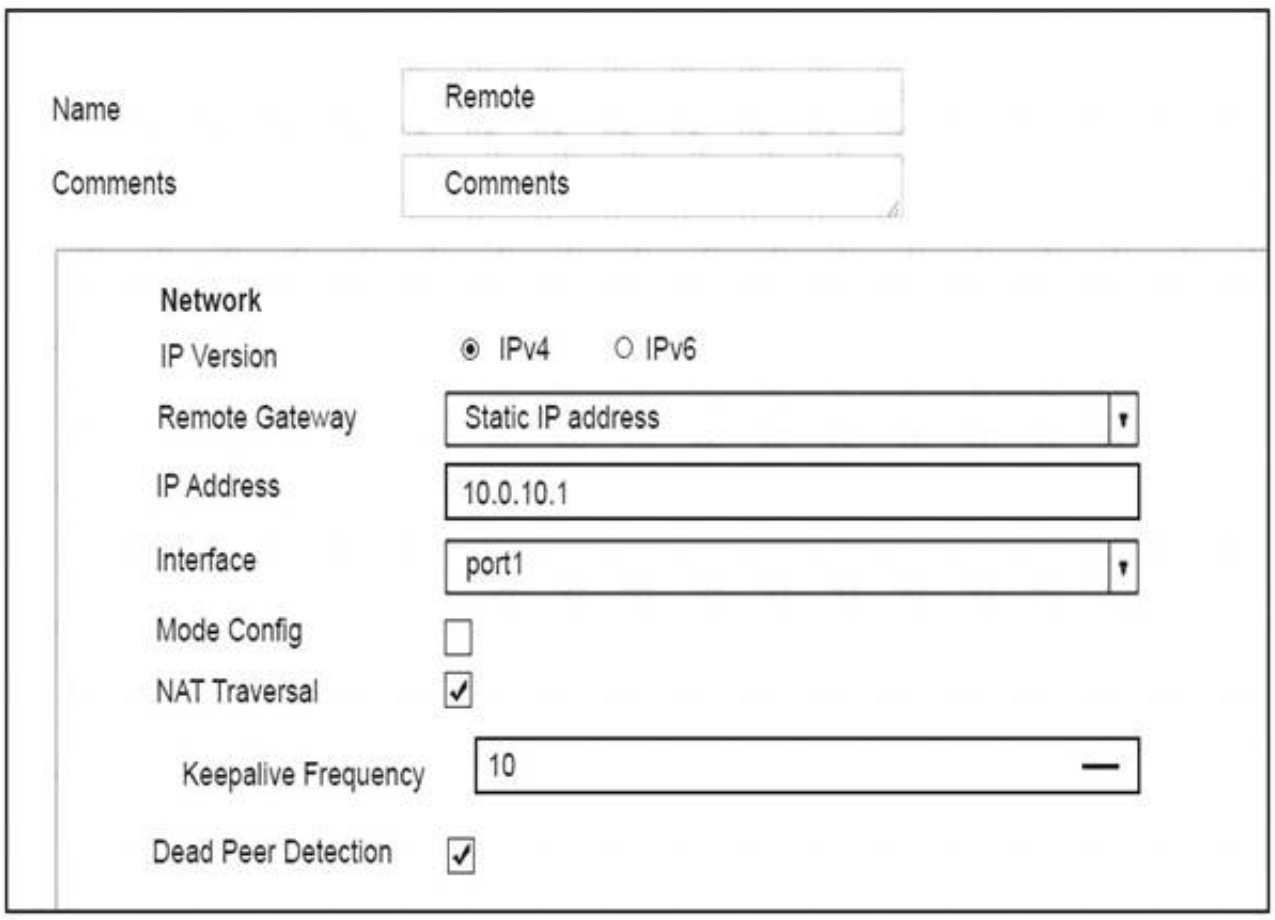
Answer: D

NEW QUESTION 68
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 71
View the exhibit, which contains a screenshot of some phase-1 settings, and then answer the question below.



The VPN is up, and DPD packets are being exchanged between both IPsec gateways; however, traffic cannot pass through the tunnel. To diagnose, the administrator enters these CLI commands:

```
diagnose vpn ike log-filter src-add4 10.0.10.1
diagnose debug application ike-1
diagnose debug enable
```

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

A. The debug output shows phases 1 and 2 negotiations onl
B. Once the tunnel is up, it does not show any more output.
C. The log-filter setting was set incorrectl
D. The VPN's traffic does not match this filter.
E. The debug shows only error message
F. If there is no output, then the tunnel is operating normally.
G. The debug output shows phase 1 negotiation onl
H. After that, the administrator must enable the following real time debug: diagnose debug application ipsec -1.

Answer: B

NEW QUESTION 73
Refer to the exhibit, which contains partial output from an IKE real-time debug.

```
ike 0:624000:98: responder: main mode get 1st message...
ike 0:624000:98: VID DPD AFCAD71368A1F1C96B8696FC77570100
ike 0:624000:98: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3
ike 0:624000:98: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000
ike 0:624000:98: VID FORTIGATE 8299031757A36082C6A621DE00000000
ike 0:624000:98: incoming proposal:
ike 0:624000:98: proposal id = 0:
ike 0:624000:98:   protocol id = ISAKMP:
ike 0:624000:98:      trans_id = KEY_IKE.
ike 0:624000:98:      encapsulation = IKE/none
ike 0:624000:98:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=256
ike 0:624000:98:         type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:624000:98:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:624000:98:         type=OAKLEY_GROUP, val=MODP2048.
ike 0:624000:98: ISAKMP SA lifetime=86400
ike 0:624000:98: proposal id = 0:
ike 0:624000:98:   protocol id = ISAKMP:
ike 0:624000:98:      trans_id = KEY_IKE.
ike 0:624000:98:      encapsulation = IKE/none
ike 0:624000:98:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=256
ike 0:624000:98:         type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:624000:98:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:624000:98:         type=OAKLEY_GROUP, val=MODP1536.
ike 0:624000:98: ISAKMP SA lifetime=86400
ike 0:624000:98: my proposal, gw Remotesite:
ike 0:624000:98: proposal id = 1:
ike 0:624000:98:   protocol id = ISAKMP:
ike 0:624000:98:      trans_id = KEY_IKE.
ike 0:624000:98:      encapsulation = IKE/none
iike 0:620000:98:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0:624000:98:         type=OAKLEY_HASH_ALG, val=SHA.
ike 0:624000:98:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:624000:98:         type=OAKLEY_GROUP, val=MODP2048.
ike 0:624000:98: ISAKMP SA lifetime=86400
ike 0:624000:98: proposal id = 1:
ike 0:624000:98:   protocol id = ISAKMP:
ike 0:624000:98:      trans_id = KEY_IKE.
ike 0:624000:98:      encapsulation = IKE/none
ike 0:624000:98:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0:624000:98:         type=OAKLEY_HASH_ALG, val=SHA.
ike 0:624000:98:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:624000:98:         type=OAKLEY_GROUP, val=MODP1536.
ike 0:624000:98: ISAKMP SA lifetime=86400
ike 0:624000:98: negotiation failure
ike Negot:624ea7b1bba276fb/0000000000000000:98: no SA proposal chosen
```

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

A. In the phase 1 network configuration, set the IKE version to 2.
B. In the phase 1 proposal configuration, add AES128-SHA128 to the list of encryption algorithms.
C. In the phase 1 proposal configuration, add AESCBC-SHA2 to the list of encryption algorithms.
D. In the phase 1 proposal configuration, add AES256-SHA256 to the list of encryption algorithms.

Answer: D

Explanation:
https://docs.fortinet.com/document/fortigate/7.0.0/administration-guide/238852

NEW QUESTION 75
What is the diagnose test application ipsmonitor 99 command used for?

A. To enable IPS bypass mode
B. To provide information regarding IPS sessions
C. To disable the IPS engine
D. To restart all IPS engines and monitors

Answer: D

NEW QUESTION 76
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 79
Examine the following routing table and BGP configuration; then answer the question below.

```
#get router info routing-table all
*0.0.0.0/0 [10/0] via 10.200.1.254, port1
C10.200.1.0/24 is directly connected, port1
S192.168.0.0/16 [10/0] via 10.200.1.254, port1
# show router bgp
config router bgp
set as 65500
set router-id 10.200.1.1
set network-import-check enable
set ebgp-miltipath disable
config neighbor
edit "10.200.3.1"
set remote-as 65501
next
end
config network
edit1
```

TheBGP connection is up, but the local peer is NOT advertising the prefix 192.168.1.0/24. Which configuration change will make the local peer advertise this prefix?

A. Enable the redistribution of connected routers into BGP.
B. Enable the redistribution of static routers into BGP.
C. Disable the setting network-import-check.
D. Enable the setting ebgp-multipath.

Answer: C

NEW QUESTION 83
View the central management configuration shown in the exhibit, and then answer the question below.

```
config system central-management
   set type fortimanager
   set fmg "10.0.1.242"
   config server-list
      edit 1
         set server-type rating
         set server-address 10.0.1.240
      next
      edit 2
         set server-type update
         set server-address 10.0.1.243
      next
      edit 3
         set server-type rating
         set server-address 10.0.1.244
      next
   end
   set include-default-servers enable
end
```

Which server will FortiGate choose for antivirus and IPS updates if 10.0.1.243 is experiencing an outage?

A. 10.0.1.240
B. One of the public FortiGuard distribution servers
C. 10.0.1.244
D. 10.0.1.242

Answer: B

NEW QUESTION 87
Refer to the exhibits, which show the configuration on FortiGate and partial session information for internet traffic from a user on the internal network.

```
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
```

```
FGT # diagnose sys session list
session info: proto=6 proto_state=01 duration=600 expire=3179 timeout=3600 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=log may_dirty npu f00
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
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)
src_mac=b4:f7a1:e9:91:97
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00317c5b tos=ff/ff app_list=0 app=0 url_cat=0
rpdb_link_id = 00000000
dd_type=0 dd_mode=0
npu_state=0x000c00
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=0x0000/0x000 in_npu=0/0, out_npu=0/0, fwd_en=0/0, qid=0/0
no_of1d_reason:
```

If the priority on route ID 2 were changed from 10 to 0, what would happen to traffic matching that user session?

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

Answer: D

Explanation:
https://community.fortinet.com/t5/FortiGate/Technical-Tip-Using-SNAT-route-change-to-update-existing-NAT/

NEW QUESTION 89
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