

## NSE7\_EFW-7.0 Dumps

### Fortinet NSE 7 - Enterprise Firewall 7.0

[https://www.certleader.com/NSE7\\_EFW-7.0-dumps.html](https://www.certleader.com/NSE7_EFW-7.0-dumps.html)



**NEW QUESTION 1**

View the exhibit, which contains an entry in the session table, and then answer the question below.

```
session info: proto=6 proto_state=11 duration=53 expire=265 timeout=300 flags=00000000
sockflag=00000000
origin-shaper=
reply-shaper=
per_ip_shaper=
ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
user=AALI state=redir log local may_dirty npu nlb none acct-ext
statistic (bytes/packets/allow_err): org=2651/17/1 reply=19130/28/1 tuples=3
tx speed (Bps/kbps): 75/0 rx speed (Bps/kbps): 542/4
origin->sink: org pre->post, reply pre->post dev=7->6/6->7 gw=172.20.121.2/10.0.0.2
hook=post dir=org act=snat 192.167.1.100:49545->216.58.216.238:443(172.20.121.96:49545)
hook=pre dir=reply act=dnat 216.58.216.238:443->172.20.121.96:49545 (192.167.1.100:49545)
hook=post dir=reply act=noop 216.58.216.238:443->192.167.1.100:49545 (0.0.0.0:0)
pos/(before, after) 0/(0,0), 0/(0,0)
src_mac=08:5b:0e:6c:7b:7a
misc=0 policy_id=21 auth_info=0 chk_client_info=0 vd=0
serial=007f2948 tos=ff/ff app_list=0 app=0 url_cat=41
dd_type=0 dd_mode=0
npu_state=00000000
npu info: flag=0x00/0x00, offload=0/0, ips_offload=0/0, epid=0/0, ipid=0/0, vlan=0x0000/0x0000
vlfid=0/0, vtag_in=0x0000/0x0000 in_npu=0/0, out_npu=0/0, fwd_en=0/0, qid=0/0
```

Which one of the following statements is true regarding FortiGate's inspection of this session?

- A. FortiGate applied proxy-based inspection.
- B. FortiGate forwarded this session without any inspection.
- C. FortiGate applied flow-based inspection.
- D. FortiGate applied explicit proxy-based inspection.

**Answer: A**

**Explanation:**

<https://kb.fortinet.com/kb/viewContent.do?externalId=FD30042>

**NEW QUESTION 2**

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 send 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. The local FortiGate OSPF router ID is 0.0.0.4.
- B. Port4 is connected to the OSPF backbone area.
- C. In the network connected to port4, two OSPF routers are down.
- D. The local FortiGate is the backup designated router.

**Answer: AB**

**Explanation:**

Area 0.0.0.0 is the backbone area.

**NEW QUESTION 3**

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_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=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 4

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

- A. FortiGate limits the number of simultaneous sessions per explicit web proxy use
- B. This limit CANNOT be modified by the administrator.
- C. FortiGate limits the total number of simultaneous explicit web proxy users.
- D. FortiGate limits the number of simultaneous sessions per explicit web proxy user The limit CAN be modified by the administrator
- E. FortiGate limits the number of workstations that authenticate using the same web proxy user credentials.This limit CANNOT be modified by the administrator.

**Answer: B**

#### Explanation:

[https://help.fortinet.com/fos50hlp/52data/Content/FortiOS/fortigate-WAN-opt-52/web\\_proxy.htm#Explicit2](https://help.fortinet.com/fos50hlp/52data/Content/FortiOS/fortigate-WAN-opt-52/web_proxy.htm#Explicit2)

The explicit proxy does not limit the number of active sessions for each user. As a result the actual explicit proxy session count is usually much higher than the number of explicit web proxy users. If an excessive number of explicit web proxy sessions is compromising system performance you can limit the amount of users if the FortiGate unit is operating with multiple VDOMs.

#### NEW QUESTION 5

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 6**

Refer to the exhibit, which contains the output of get system ha status. Which two statements about the output are true? (Choose two.)

```

NGFW-1 # get system ha status
HA Health Status: OK
Model: FortiGate-VM64
Mode: HA A-P
Group: 2
Debug: 0
Cluster Uptime: 0 days 4:23:19
Cluster state change time: 2019-01-25 10:19:46
Master selected using:
  <2019/01/25 10:19:46> FGVM010000077649 is selected as the master because it has the largest value
of override priority.
  <2019/01/25 10:19:40> FGVM010000077649 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=27, average-cpu-user/nice/system/idle=1%/0%/0%/99%, memory=56%
  FGVM010000077650 (updated 0 seconds ago):
    sessions=2, average-cpu-user/nice/system/idle=1%/0%/0%/99%, memory=57%
HBDEV stats:
  FGVM010000077649 (updated 1 seconds ago):
    port7: physical/10000full, up, rx-bytes/packets/dropped/errors=63817615/202024/0/0, tx=
71110281/121109/0/0
  FGVM010000077650 (updated 0 seconds ago):
    port7: physical/10000full, up, rx-bytes/packets/dropped/errors=79469596/122024/0/0, tx=
30877890/107878/0/0
Master: NGFW-1      , FGVM010000077649, cluster index = 1
Slave : NGFW-2      , FGVM010000077650, cluster index = 0
number of vcluster: 1
vcluster 1: work 169.254.0.2
Master: FGVM010000077649, operating cluster index = 0
Slave : FGVM010000077650, operating cluster index = 1

```

- A. The slave configuration is synchronized with the master.
- B. port7 is used as the HA heartbeat on all devices in the cluster.
- C. Primary is selected based on the priority configured under config system ha.
- D. The HA management IP is 169.254.0.2.

Answer: BC

**NEW QUESTION 7**

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_rcv=00000000
url_rcv=00000000
av_rcv=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 8**

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 9**

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

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

**Answer:** BD

**Explanation:**

CLI scripts can be run in three different ways: Device Database: By default, a script is executed on the device database. It is recommend you run the changes on the device database (default setting), as this allows you to check what configuration changes you will send to the managed device. Once scripts are run on the device database, you can install these changes to a managed device using the installation wizard.

Policy Package, ADOM database: If a script contains changes related to ADOM level objects and policies, you can change the default selection to run on Policy Package, ADOM database and can then be installed using the installation wizard.

Remote FortiGate directly (through CLI): A script can be executed directly on the device and you don't need to install these changes using the installation wizard. As the changes are directly installed on the managed device, no option is provided to verify and check the configuration changes through FortiManager prior to executing it.

**NEW QUESTION 10**

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

```
ike 0: comes 10.0.0.2:500->10.0.0.1:500, ifindex=7. . .
ike 0: IKEv2 exchange=Aggressive id=a2fbd6bb6394401a/06b89c022d4df682 len=426
ike 0: Remotesite:3: initiator: aggressive mode get 1st response. . .
ike 0: Remotesite:3: VID DPD AFCAD71368A1F1C96B8696FC77570100
ike 0: Remotesite:3: DPD negotiated
ike 0: Remotesite:3: VID FORTIGATE 8299031757A36082C6A621DE00000000
ike 0: Remotesite:3: peer is FortiGate/FortiOS (v0 b0)
ike 0: Remotesite:3: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3
ike 0: Remotesite:3: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000
ike 0: Remotesite:3: received peer identifier PQDN 'remote'
ike 0: Remotesite:3: negotiation result
ike 0: Remotesite:3: proposal id = 1:
ike 0: Remotesite:3:   protocol id = ISAKMP:
ike 0: Remotesite:3:   trans_id = KEY_IKE.
ike 0: Remotesite:3:   encapsulation = IKE/none.
ike 0: Remotesite:3:   type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0: Remotesite:3:   type=OAKLEY_HASH_ALG, val=SHA.
ike 0: Remotesite:3:   type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: Remotesite:3:   type=OAKLEY_GROUP, val=MODP1024.
ike 0: Remotesite:3: ISAKMP SA lifetime=86400
ike 0: Remotesite:3: NAT-T unavailable
ike 0: Remotesite:3: ISAKMP SA a2fbd6bb6394401a/06b89c022d4df682 key
16:39915120ED73ED73E520787C801DE3678916
ike 0: Remotesite:3: PSK authentication succeeded
ike 0: Remotesite:3: authentication OK
ike 0: Remotesite:3: add INITIAL-CONTACT
ike 0: Remotesite:3: enc
A2FBD6BB6394401A06B89C022D4DF6820810040100000000000000500B000018882A07BE09026CA8B2
ike 0: Remotesite:3: out
A2FBD6BB6394401A06B89C022D4DF6820810040100000000000005C64D5CBA90B873F150CB8B5CC2A
ike 0: Remotesite:3: sent IKE msg (agg_i2send): 10.0.0.1:500->10.0.0.2:500, len=140,
id=a2fbd6bb6394401a/
ike 0: Remotesite:3: established IKE SA a2fbd6bb6394401a/06b89c022d4df682
```

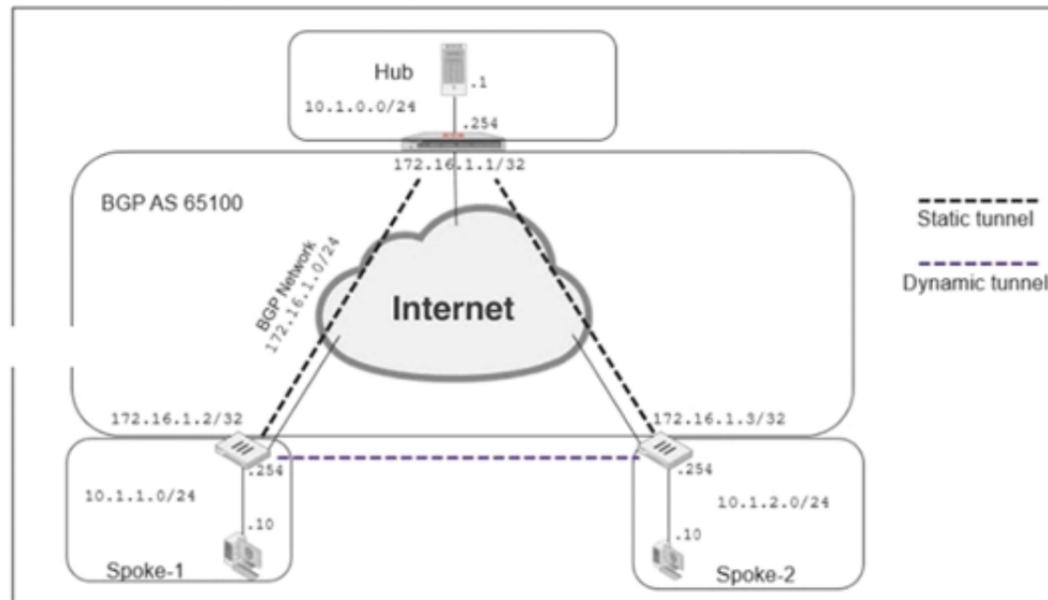
Which two statements about this debug output are correct? (Choose two.)

- A. The remote gateway IP address is 10.0.0.1.
- B. The initiator provided remote as its IPsec peer ID.
- C. It shows a phase 1 negotiation.
- D. The negotiation is using AES128 encryption with CBC hash.

Answer: BC

**NEW QUESTION 10**

Exhibits:



```
now router bgp
router bgp
  as 65100
  router-id 172.16.1.1
  fig neighbor-group
  edit "advpn"
    set remote-as 65100

    set route-reflector-client disable
  next

  fig neighbor-range
  edit 1
    set prefix 172.16.1.0 255.255.255.0
    set neighbor-group "advpn"
  next
```

Refer to the exhibits, which contain the network topology and BGP configuration for a hub. An administrator is trying to configure ADVPN with a hub-spoke VPN setup using iBGP. All the VPNs are up and connected to the hub. The hub is receiving route information from both spokes over iBGP; however, the spokes are not receiving route information from each other. What change must the administrator make to the hub BGP configuration so that the routes learned by one spoke are forwarded to the other spokes?

- A. Configure an individual neighbor and remove neighbor-range configuration.
- B. Configure the hub as a route reflector client.
- C. Change the router id to 10.1.0.254.
- D. Make the configuration of remote-as different from the configuration of local-as.

Answer: B

**NEW QUESTION 15**

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=cccl1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
  ah=sha1 key=20 c68091d68753578785de6a7a6b276b506c527efe
enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
  ah=sha1 key=20 889f7529887c215c25950be2ba83e6fela5367be
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 18**

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 20**

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
origin-> 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=0000000e9.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 FortiGuard.
- 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 21**

An administrator cannot connect to the GUI of a FortiGate unit with the IP address 10.0.1.254. The administrator runs the debug flow while attempting the connection using HTTP. The output of the debug flow is shown in the exhibit:

```
# diagnose debug flow filter port 80
# diagnose debug flow trace start 5
# diagnose debug enable

id=20085 trace_id=5 msg="vd-root received a packet(proto=6,
10.0.1.10:57459->10.0.1.254:80) from port3. flag [S], seq 3190430861, ack
0, win 8192"
id=20085 trace_id=5 msg="allocate a new session-0000008c"
id=20085 trace_id=5 msg="iprope_in_check() check failed on policy 0, drop"
```

Based on the error displayed by the debug flow, which are valid reasons for this problem? (Choose two.)

- A. HTTP administrative access is disabled in the FortiGate interface with the IP address 10.0.1.254.
- B. Redirection of HTTP to HTTPS administrative access is disabled.
- C. HTTP administrative access is configured with a port number different than 80.
- D. The packet is denied because of reverse path forwarding check.

Answer: AC

**NEW QUESTION 23**

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 26**

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/fo50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA\\_failoverVMAC.htm](https://help.fortinet.com/fo50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA_failoverVMAC.htm)

**NEW QUESTION 27**

An administrator has decreased all the TCP session timers to optimize the FortiGate memory usage. However, after the changes, one network application started to have problems. During the troubleshooting, the administrator noticed that the FortiGate deletes the sessions after the clients send the SYN packets, and before the arrival of the SYN/ACKs. When the SYN/ACK packets arrive to the FortiGate, the unit has already deleted the respective sessions. Which TCP session timer must be increased to fix this problem?

- A. TCP half open.
- B. TCP half close.
- C. TCP time wait.
- D. TCP session time to live.

Answer: A

**Explanation:**

[http://docs-legacy.fortinet.com/fo40hlp/43prev/wwhelp/wwhimpl/common/html/wwhelp.htm?context=fgt&file=CLI\\_get\\_Commands.58.25.html](http://docs-legacy.fortinet.com/fo40hlp/43prev/wwhelp/wwhimpl/common/html/wwhelp.htm?context=fgt&file=CLI_get_Commands.58.25.html)

The tcp-halfopen-timer controls for how long, after a SYN packet, a session without SYN/ACK remains in the table.

The tcp-halfclose-timer controls for how long, after a FIN packet, a session without FIN/ACK remains in the table.

The tcp-timewait-timer controls for how long, after a FIN/ACK packet, a session remains in the table. A closed session remains in the session table for a few seconds more to allow any out-of-sequence packet.

**NEW QUESTION 30**

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 31**

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

```
ike 0:H2S_0_1: shortcut 10.200.5.1:0 10.1.2.254->10.1.1.254
...
ike 0:H2S_0_1:15: sent IKE msg (SHORTCUT-OFFER): 10.200.1.1:500->10.200.5.1:500,
len=164, id=4134df8580d5cdd/ce54851612c7432f:a21f14fe
ike 0: comes 10.200.5.1:500->10.200.1.1:500,ifindex=3....
ike 0: IKEv1 exchange=Informational id=4134df8580d5bcdd/ce54851612c7432f:6266ee8c
len=196

ike 0:H2S_0_1:15: notify msg received: SHORTCUR-QUERY
ike 0:H2S_0_1: recv shortcut-query 16462343159772385317

ike 0:H2S_0_0:16: senr IKE msg (SHORTCUT-QUERY): 10.200.1.1:500->10.200.3.1:500,
len=196, id=7c6b6cca6700a935/dba061eaf51b89f7:b326df2a
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=3....
ike 0: IKEv1 exchange=Informational id=7c6b6cca6700a935/dba061eaf51b89f7:1c1dbf39
len=188

ike 0:H2S_0_0:16: notify msg received: SHORTCUT-REPLY
ike 0:H2S_0_0: recv shortcut-reply 16462343159772385317
f97a7565a441e2aa/667d3e2e3442211e 10.200.3.1 to 10.1.2.254 psk 64
ike 0:H2S_0_0: shortcut-reply route to 10.1.2.254 via H2S_0_1 29
ike 0:H2S: forward shortcut-reply 16462343159772385317
f97a7565a441e2aa/667d3e2e3442211e 10.200.3.1 to 10.1.2.254 psk 64 ttl 31
ike 0:H2S_0_1:15: enc
...
ike 0:H2S_0_1:15: sent IKE msg (SHORTCUT-REPLY): 10.200.1.1:500->10.200.5.1:500,
len=188, id=4134df8580d5bcdd/ce54851612c7432f:70ed6d2c
```

Based on the debug output, which phase-1 setting is enabled in the configuration of this VPN?

- A. auto-discovery-sender
- B. auto-discovery-forwarder
- C. auto-discovery-shortcut
- D. auto-discovery-receiver

**Answer: B**

**NEW QUESTION 34**

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   TblVer
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 36**

Examine the following partial outputs from two routing debug commands; then answer the question below:

```
#get router info routing-table database
S    0.0.0.0/. [20/0] via 10.200.2.254, port2, [10/0]
S    *> 0.0.0.0/0 [10/0] via 10.200.1.254, port1
# get router info routing-table all
S*   0.0.0.0/0 [10/0] via 10.200.1.254, port1
```

Why the default route using port2 is not displayed in the output of the second command?

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

**Answer: C**

**Explanation:**

<http://kb.fortinet.com/kb/viewContent.do?externalId=FD32103>

**NEW QUESTION 41**

Refer to the exhibits.

```
config vpn ipsec phase1-interface
edit "user-1"
set type dynamic
set interface "port1"
set mode main
set xauthtype auto
set authusrgrp "Users-1"
set peertype any
set dhgrp 14 15 19
set proposal aes128-sha256 aes256-sha384
set psksecret <encrypted_password>
next
```

Which contain the partial configurations of two VPNs on FortiGate.

An administrator has configured two VPNs for two different user groups. Users who are in the Users-2 group are not able to connect to the VPN. After running a diagnostics command, the administrator discovered that FortiGate is not matching the user-2 VPN for members of the Users-2 group.

Which two changes must administrator make to fix the issue? (Choose two.)

- A. Use different pre-shared keys on both VPNs
- B. Enable Mode Config on both VPNs.
- C. Set up specific peer IDs on both VPNs.
- D. Change to aggressive mode on both VPNs.

**Answer: CD**

**NEW QUESTION 45**

Examine the following traffic log; then answer the question below.

```
date=20xx-02-01 time=19:52:01 devname=master device_id="xxxxxxx" log_id=0100020007 type=event subtype=system pri critical vd=root service=kemel status=failure msg="NAT port is exhausted."
```

What does the log mean?

- A. There is not enough available memory in the system to create a new entry in the NAT port table.
- B. The limit for the maximum number of simultaneous sessions sharing the same NAT port has been reached.
- C. FortiGate does not have any available NAT port for a new connection.
- D. The limit for the maximum number of entries in the NAT port table has been reached.

**Answer: B**

**NEW QUESTION 48**

View the exhibit, which contains the output of a diagnose command, and then 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     -5   262432  0          846
64.26.151.35  10     46    -5     -5   329072  0          6806
66.117.56.37  10     75    -5     -5   71638   0          275
65.210.95.240 20     71    -8     -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      0    33728   0          120
80.85.69.41   71     226   1      1    33797   0          192
62.209.40.74  150    97    9      9    33754   0          145
121.111.236.179 45     44    F      -5   26410   26226     26227
```

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

- A. FortiGate will probe 121.111.236.179 every fifteen minutes for a response.
- B. Servers with the D flag are considered to be down.
- C. Servers with a negative TZ value are experiencing a service outage.
- D. FortiGate used 209.222.147.3 as the initial server to validate its contract.

**Answer:** AD

**Explanation:**

A – because flag is Failed so fortigate will check if server is available every 15 min D-state is I , contact to validate contract info

**NEW QUESTION 49**

Examine the following partial output from a sniffer command; then answer the question below.

```
# diagnose sniff packet any 'icmp' 4
interfaces= [any]
filters = [icmp]
2.101199 wan2 in 192.168.1.110-> 4.2.2.2: icmp: echo request
2.101400 wan1 out 172.17.87.16-> 4.2.2.2: icmp: echo request
.....
2.123500 wan2 out 4.2.2.2-> 192.168.1.110: icmp: echo reply
244 packets received by filter
5 packets dropped by kernel
```

What is the meaning of the packets dropped counter at the end of the sniffer?

- A. Number of packets that didn't match the sniffer filter.
- B. Number of total packets dropped by the FortiGate.
- C. Number of packets that matched the sniffer filter and were dropped by the FortiGate.
- D. Number of packets that matched the sniffer filter but could not be captured by the sniffer.

**Answer:** D

**Explanation:**

<https://kb.fortinet.com/kb/documentLink.do?externalID=11655>

**NEW QUESTION 50**

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 55**

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 56**

An administrator has configured a FortiGate device with two VDOMs: root and internal. The administrator has also created an inter-VDOM link that connects both VDOMs. The objective is to have each VDOM advertise some routes to the other VDOM via OSPF through the inter-VDOM link. What OSPF configuration settings must match in both VDOMs to have the OSPF adjacency successfully forming? (Choose three.)

- A. Router ID.
- B. OSPF interface area.
- C. OSPF interface cost.
- D. OSPF interface MTU.
- E. Interface subnet mask.

**Answer:** BDE

**NEW QUESTION 57**

A FortiGate's port1 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 sessions 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 62**

Refer to the exhibit, which contains the debug output of diagnose dvm device list.

```

FMG-VM64# diagnose dvm device list
There are currently 1 devices/vdoms managed:
TYPE      OID      SN      HA      IP      NAME      ADOM      IPS      FIRMWARE
fmg/      217     FGVM01... -    10.200.1.1 Local-FortiGate My_ADOM 15.0.0831 6.0 MR4 (1579)
faz enabled
          |- STATUS: db: modified; conf: in sync; cond: pending; dm: retrieved; conn: up
          |- vdom: [3] root flags:0 adom:My_ADOM pkg: [imported] Local-FortiGate_root
    
```

Which two statements about the output shown in the exhibit are correct? (Choose two.)

- A. ADOMs are disabled on the FortiManager
- B. The FortiGate configuration is in sync with latest running revision history.
- C. There are pending device-level changes yet to be installed on Local-FortiGate.
- D. The policy package has been modified for Local-FortiGate.

**Answer:** BC

**NEW QUESTION 67**

View the exhibit, which contains a partial web filter profile configuration, and then answer the question below.

Name: default  
Comments: Default web filtering. 22/255

FortiGuard category based filter

Show  Allow

- Bandwidth Consuming
- File Sharing and Storage

Status URL Filter

Block invalid URLs:   
URL Filter:

+ Create	Edit	Delete	
URL	Type	Action	Status
*dropbox.com	Wildcard	<input checked="" type="checkbox"/> Block	Enable

Web content filter:

+ Create new	Edit	Delete		
Pattern Type	Pattern	Language	Action	Status
Wildcard	*dropbox	Western	<input checked="" type="checkbox"/> Exempt	Enable

Which action will FortiGate take if a user attempts to access www.dropbox.com, which is categorized as File Sharing and Storage?

- A. FortiGate will exempt the connection based on the Web Content Filter configuration.
- B. FortiGate will block the connection based on the URL Filter configuration.
- C. FortiGate will allow the connection based on the FortiGuard category based filter configuration.
- D. FortiGate will block the connection as an invalid URL.

**Answer: B**

**Explanation:**

fortigate does it in order Static URL -> FortiGuard -> Content -> Advanced (java, cookie removal..)so block it in first step

**NEW QUESTION 69**

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 72**

Refer to the exhibit, which contains a TCL script configuration on FortiManager.

Type: TCL Script  
Run script on: Remote FortiGate ...

```
#!
proc do_cmd {cmd} {
  puts [exec "$cmd\n" "# " 10]
}
run_cmd "config system interface "
run_cmd "edit port1"
run_cmd "set ip 10.0.1.10 255.255.255.0"
run_cmd "next"
run_cmd "end"
```

An administrator has configured the TCL script on FortiManager, but failed to apply any changes to the managed device after being executed.

Why did the TCL script fail to make any changes to the managed device?

- A. Changes in an interface configuration can only be done by CLI script.
- B. The TCL script must start with #include <>.
- C. Incomplete commands are ignored in TCL scripts.

D. The TCL command run\_cmd has not been created.

**Answer:** D

**NEW QUESTION 74**

What global configuration setting changes the behavior for content-inspected traffic while FortiGate is in system conserve mode?

- A. av-failopen
- B. mem-failopen
- C. utm-failopen
- D. ips-failopen

**Answer:** A

**Explanation:**

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-security-profiles-54/Other\\_Profile\\_Consideratio](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-security-profiles-54/Other_Profile_Consideratio)

**NEW QUESTION 78**

The CLI command set intelligent-mode <enable | disable> controls the IPS engine's adaptive scanning behavior. Which of the following statements describes IPS adaptive scanning?

- A. Determines the optimal number of IPS engines required based on system load.
- B. Downloads signatures on demand from FDS based on scanning requirements.
- C. Determines when it is secure enough to stop scanning session traffic.
- D. Choose a matching algorithm based on available memory and the type of inspection being performed.

**Answer:** C

**Explanation:**

Configuring IPS intelligenceStarting with FortiOS 5.2, intelligent-mode is a new adaptive detection method. This command is enabled the default and it means that the IPS engine will perform adaptive scanning so that, for some traffic, the FortiGate can quickly finish scanning and offload the traffic to NPU or kernel. It is a balanced method which could cover all known exploits. When disabled, the IPS engine scans every single byte.  
config ips globalset intelligent-mode {enable|disable}end

**NEW QUESTION 81**

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
concernemode: 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 83**

When does a RADIUS server send an Access-Challenge packet?

- A. The server does not have the user credentials yet.
- B. The server requires more information from the user, such as the token code for two-factor authentication.

- C. The user credentials are wrong.
- D. The user account is not found in the server.

**Answer: B**

#### NEW QUESTION 86

Examine the output from the 'diagnose debug authd fssolist' command; then answer the question below.

```
# diagnose debug authd fssolist —FSSO logons-IP: 192.168.3.1 User: STUDENT Groups: TRAININGAD/USERS Workstation: INTERNAL2. TRAINING. LAB The IP address 192.168.3.1 is
```

NOT the one used by the workstation INTERNAL2. TRAINING. LAB.

What should the administrator check?

- A. The IP address recorded in the logon event for the user STUDENT.
- B. The DNS name resolution for the workstation name INTERNAL2. TRAININ
- C. LAB.
- D. The source IP address of the traffic arriving to the FortiGate from the workstation INTERNAL2.TRAININ
- E. LAB.
- F. The reserve DNS lookup forthe IP address 192.168.3.1.

**Answer: C**

#### NEW QUESTION 89

Examine the output of the 'diagnose ips anomaly list' command shown in the exhibit; then answer the question below.

```
# diagnose ips anomaly list
```

```
list nids meter:
```

id=ip_dst_session	ip=192.168.1.10	dos_id=2	exp=3646	pps=0	freq=0
id=udp_dst_session	ip=192.168.1.10	dos_id=2	exp=3646	pps=0	freq=0
id=udp_scan	ip=192.168.1.110	dos_id=1	exp=649	pps=0	freq=0
id=udp_flood	ip=192.168.1.110	dos_id=2	exp=653	pps=0	freq=0
id=tcp_src_session	ip=192.168.1.110	dos_id=1	exp=5175	pps=0	freq=8
id=tcp_port_scan	ip=192.168.1.110	dos_id=1	exp=175	pps=0	freq=0
id=ip_src_session	ip=192.168.1.110	dos_id=1	exp=5649	pps=0	freq=30
id=udp_src_session	ip=192.168.1.110	dos_id=1	exp=5649	pps=0	freq=22

Which IP addresses are included in the output of this command?

- A. Those whose traffic matches a DoS policy.
- B. Those whose traffic matches an IPS sensor.
- C. Those whose traffic exceeded a threshold of a matching DoS policy.
- D. Those whose traffic was detected as an anomaly by an IPS sensor.

**Answer: A**

#### NEW QUESTION 91

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. The administrator must increase webfilter-timeout.
- B. The administrator must disable webfilter-force-off.
- C. The administrator must change protocol to TCP.
- D. The administrator must enable fortiguard-anycast.

**Answer:** D

#### NEW QUESTION 92

An administrator has configured the following CLI script on FortiManager, which failed to apply any changes to the managed device after being executed.

```
# conf rout stat
#   edit 0
#     set gateway 10.20.121.2
#     set priority 20
#     set device "wan1"
#   next
# end
```

Why didn't the script make any changes to the managed device?

- A. Commands that start with the # sign are not executed.
- B. CLI scripts will add objects only if they are referenced by policies.
- C. Incomplete commands are ignored in CLI scripts.
- D. Static routes can only be added using TCL scripts.

**Answer:** A

#### Explanation:

[https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager\\_Admin\\_Guide/1000\\_Device%20Manager/2400\\_Sc](https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager_Admin_Guide/1000_Device%20Manager/2400_Sc)

A sequence of FortiGate CLI commands, as you would type them at the command line. A comment line starts with the number sign (#). A comment line will not be executed.

#### NEW QUESTION 96

Examine the output of the 'get router info ospf interface' command shown in the exhibit; 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 statements are true regarding the above output? (Choose two.)

- A. The port4 interface is connected to the OSPF backbone area.
- B. The local FortiGate has been elected as the OSPF backup designated router.
- C. There are at least 5 OSPF routers connected to the port4 network.
- D. Two OSPF routers are down in the port4 network.

**Answer:** AC

**Explanation:**

on BROADCAST network there are 4 neighbors, among which 1\*DR +1\*BDR. So our FG has 4 neighbors, but create adjacency only with 2 (with DR and BDR). 2 neighbors DROther (not down).

**NEW QUESTION 101**

In which two states is a given session categorized as ephemeral? (Choose two.)

- A. A TCP session waiting to complete the three-way handshake.
- B. A TCP session waiting for FIN ACK.
- C. A UDP session with packets sent and received.
- D. A UDP session with only one packet received.

**Answer:** AD

**NEW QUESTION 104**

Which two statements about OCVPN are true? (Choose two.)

- A. Only root vdom supports OCVPN.
- B. OCVPN supports static and dynamic IPs in WAN interface.
- C. OCVPN offers only Hub-Spoke VPNs.
- D. FortiGate devices under different FortiCare accounts can be used to form OCVPN.

**Answer:** AB

**NEW QUESTION 109**

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 113**

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
origin->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 115**

View these partial outputs from two routing debug commands:

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

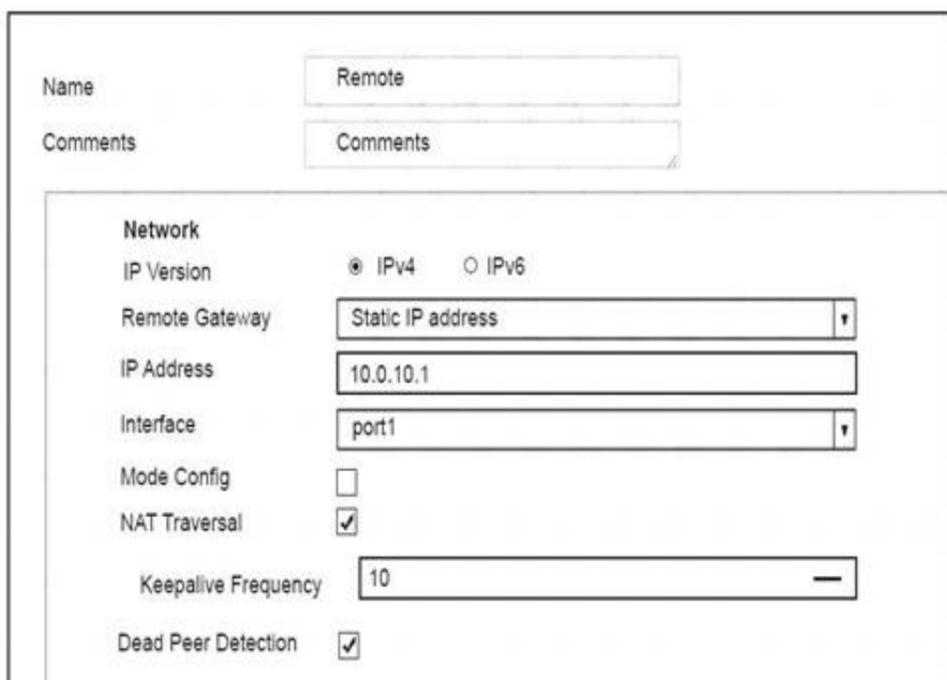
Which outbound interface will FortiGate use to route web traffic from internal users to the Internet?

- A. Both port1 and port2
- B. port3
- C. port1
- D. port2

**Answer:** C

**NEW QUESTION 117**

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 122**

Which two statements about FortiManager is true when it is deployed as a local FDS? (Choose two.)

- A. It caches available firmware updates for unmanaged devices.
- B. It can be configured as an update server, or a rating server, but not both.
- C. It supports rating requests from both managed and unmanaged devices.
- D. It provide VM license validation services.

**Answer: CD**

**NEW QUESTION 127**

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 129**

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

```
# 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
10.200.3.1  4 65501   101        115     0     0    0  never          Active

Total number of neighbors 3
```

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

- A. BGP state of the peer 10.125.0.60 is Established.
- B. BGP peer 10.200.3.1 has never been down since the BGP counters were cleared.
- C. Local BGP peer has not received an OpenConfirm from 10.200.3.1.
- D. The local BGP peer has received a total of 3 BGP prefixes.

**Answer: AC**

**NEW QUESTION 134**

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

```
#dia hardware sysinfo shm
SHM counter:          150
SHM allocated:         0
SHM total:           625057792
conserve mode: on - mem
system last entered: Mon Apr 24 16:36:37 2017
sys fd last entered: n/a
SHM FS total:   641236992
SHM FS free:    641208320
SHM FS avail:  641208320
SHM FS alloc:   28672
```

What statement is correct about this FortiGate?

- A. It is currently in system conserve mode because of high CPU usage.
- B. It is currently in FD conserve mode.
- C. It is currently in kernel conserve mode because of high memory usage.
- D. It is currently in system conserve mode because of high memory usage.

**Answer: D**

**NEW QUESTION 136**

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 137**

View the exhibit, which contains the output of a real-time debug, Which statement about this output is true?

```
FGT # diagnose debug application urlfilter -1
FGT # diagnose debug enable

msg="received a request /tmp/.wad512_0_0.url.socket, addr_len=30:
d=training.fortinet.com:443, id=687, cat=255, vfname='root', vfid=0,
profile='default', type=0, client=10.1.10.1, url_source=1, url="/"
action=9(ftgd-allow) wf-act=5(ALLOW) user="N/A" src=10.1.10.1 sport=58334
dst=13.226.142.41 dport=443 service="https" cat=52 url_cat=52 ip_cat=0
hostname="training.fortinet.com" url="/"
```

Which of the following statements is true regarding this output?

- A. The requested URL belongs to category ID 255.
- B. The server hostname is training, fortinet.com.
- C. FortiGate found the requested URL in its local cache.
- D. This web request was inspected using the ftgd-allow web filter profile.

**Answer: C**

**NEW QUESTION 142**

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 147**

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
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

```

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 149**

Refer to the exhibit, which contains 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
origin->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 153**

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 fssolist' 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 154**

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 156**

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