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**Exam** : **NSE7\_EFW-6.2**

**Title** : Fortinet NSE 7 - Enterprise  
Firewall 6.2

**Vendor** : Fortinet

**Version** : DEMO

**NO.1** Which the following events can trigger the election of a new primary unit in a HA cluster? (Choose two.)

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

**Answer:** A,D

**NO.2** What configuration changes can reduce the memory utilization in a FortiGate? (Choose two.)

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

**Answer:** A,B

**NO.3** 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. Gratuitous ARPs.
- B. Group name.
- C. Session pickup.
- D. Group ID.

**Answer:** D

**NO.4** What conditions are required for two FortiGate devices to form an OSPF adjacency? (Choose three.)

- A. OSPF IP MTUs match.
- B. OSPF peer IDs match.
- C. Hello and dead intervals match.
- D. OSPF costs match.
- E. IP addresses are in the same subnet.

**Answer:** A,C,E

**NO.5** View the exhibit, which contains the output of diagnose sys session stat, and then answer the question below.

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

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

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

**Answer:** B,D

Explanation:

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

**NO.6** 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. Two OSPF routers are down in the port4 network.
- D. There are at least 5 OSPF routers connected to the port4 network.

**Answer:** A,D

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).

**NO.7** Examine the following partial outputs from two routing debug commands; then answer the question below.

```
# get router info kernel
tab=254 vf=0 scope=0type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0
gwy=10.200.1.254 dev=2(port1) tab=254 vf=0 scope=0type=1 proto=11 prio=10 0.0.0.0/0.0.0.0/0-
>0.0.0.0/0 pref=0.0.0.0 gwy=10.200.2.254 dev=3(port2) tab=254 vf=0 scope=253type=1 proto=2
prio=0 0.0.0.0/0.0.0.0/.->10.0.1.0/24 pref=10.0.1.254 gwy=0.0.0.0 dev=4(port3)
# get router info routing-table all s*0.0.0.0/0 [10/0] via 10.200.1.254, port1 [10/0] via 10.200.2.254,
port2, [10/0] d0.0.1.0/24 is directly connected, port3 d0.200.1.0/24 is directly connected, port1
d0.200.2.0/24 is directly connected, port2 Which outbound interface or interfaces will be used by this
FortiGate to route web traffic from internal users to the Internet?
```

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

**Answer:** C

**NO.8** What does the dirty flag mean in a FortiGate session?

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

**Answer:** B

Explanation:

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

**NO.9** 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. Since the counters were last reset; the 10.200.3.1 peer has never been down.
- B. The local router's BGP state is Established with the 10.125.0.60 peer.
- C. The local router has not established a TCP session with 100.64.3.1.
- D. The local router has received a total of three BGP prefixes from all peers.

**Answer:** B,C

**NO.10** View the exhibit, which contains the output of get sys ha status, and then answer the question below.

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

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

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

**Answer:** A,C