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Fortinet NSE 7 - Enterprise Firewall 6.4

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QUESTION 1

Examine the output of the `diagnose debug rating` command shown in the exhibit; then answer the question below.

```
# diagnose debug rating
Locale      : english
License     : Contract
Expiration  : Wed Mar 27 17:00:00 20xx
== Server List (Mon Apr 16 15:32:55 20xx) ==
IP          Weight  RTT   Flags  TZ   Packets  Curr Lost  Total Lost
69.195.205.101  10     45    -5     262432  0         846
69.195.205.102  10     46    -5     329072  0         6806
209.222.147.43  10     75    -5     71638   0         275
96.45.33.65    20     71    -8     36875   0         92
208.91.112.196  20     103   DI     -8     34784   0         1070
208.91.112.198  20     107   D      -8     35170   0         1533
80.85.69.41    60     144   0      0       33728   0         120
62.209.40.73   71     226   1      1       33797   0         192
121.111.236.180 150    197   9      9       33754   0         145
69.195.205.103  45     44    F      -5     26410   26226    26227
```

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

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

Correct Answer: BC

QUESTION 2

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

Correct Answer: AC

QUESTION 3

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



```
ike 0: comes 10.0.0.2:500-> 10.0.0.1:500, ifindex-7...
ike 0: IKEV1 exchange-Aggressive id-baf47d0988e9237f/2f405ef3952f6fda len 430
ike 0: in
BAF47D0988E9237F2F405EF3952F6FDA0110040000000000000001AE0400003C0000000100000001000000300101000
ike 0: RemoteSite:4: initiator: aggressive mode get 1st response
ike 0: RemoteSite:4: VID RFC 3947 4A131C81070358455C5728F20E95452F
ike 0: RemoteSite:4: VID DPD AFCAD71368A1F1c96B8696FC77570100
ike 0: RemoteSite:4: VID FORTIGATE 8299031757A36082C6A621DE000502D7
ike 0: RemoteSite:4: peer is FortiGate/FortiOS (v6 b932)
ike 0: RemoteSite:4: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3
ike 0: RemoteSite:4: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000
ike 0: RemoteSite:4: received peer identifier FQDN 'remote'
ike 0: RemoteSite:4: negotiation result
ike 0: RemoteSite:4: proposal id = 1:
ike 0: RemoteSite:4:   protocol id - ISAKMP:
ike 0: RemoteSite:4:   trans_id - KEY_IKE.
ike 0: RemoteSite:4:   encapsulation - IKE/none
ike 0: RemoteSite:4:   type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0: RemoteSite:4:   type=OAKLEY_HASH_ALG, val-SHA
ike 0: RemoteSite:4:   type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: RemoteSite:4:   type=OAKLEY_GROUP, val=MODF1024.
ike 0: RemoteSite:4: ISAKMP SA lifetime=86400
ike 0: RemoteSite:4: ISAKMP SA baf47d0988e9237f/2f405ef3952f6fda key
16:B25B6C9384D8BDB24E3DA3DC90CF5E73
ike 0: RemoteSite:4: PSK authentication succeeded
ike 0: RemoteSite:4: authentication OK
ike 0: RemoteSite:4: add INITIAL-CONTACT
ike 0: RemoteSite:4: enc
BAF47D0988E9237F2F405EF3952F6FDA08100401000000000000080140000181F2E48BFD8E9D603F
ike 0: RemoteSite:4: out
BAF47D0988E9237F2F405EF3952F6FDA0810040100000000000008c2E3FC9BA061816A396F009A12
ike 0: RemoteSite:4: sent IKE msg (agg_12send) : 10.0.0.1:500 ->10.0.0.2:500, len-140, id-
baf47d0988e9237f/2
ike 0: RemoteSite:4: established IKE SA baf47d0988e9237f/2f405ef3952f6fda
```

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

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

Correct Answer: BD

QUESTION 4

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] dO.0.1.0/24 is directly connected, port3 dO.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. port1
- B. port2.
- C. Both port1 and port2.
- D. port3.

Correct Answer: B

QUESTION 5

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 FQDN '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
A2FBD6BB6394401A06B89C022D4DF68208100401000000000000005C64D5CBA90B873F150CB8B5CC2A
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.

Correct Answer: BC

QUESTION 6

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.

Correct Answer: D

QUESTION 7

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

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

Correct Answer: AD

QUESTION 8



What events are recorded in the crashlogs of a FortiGate device? (Choose two.)

- A. A process crash.
- B. Configuration changes.
- C. Changes in the status of any of the FortiGuard licenses.
- D. System entering to and leaving from the proxy conserve mode.

Correct Answer: AD

diagnose debug crashlog read

275: 2014-08-05 13:03:53 proxy=acceptor service=imap session fail mode=activated276: 2014-08-05

13:03:53 proxy=acceptor service=ftp session fail mode=activated277: 2014-08-05 13:03:53 proxy=acceptor service=nntp session fail mode=activated278: 2014-08-06 11:05:47 service=kernel conserve=on free="45034 pages" red="45874 pages" msg="Kernel279: 2014-08-06 11:05:47 enters conserve mode"280: 2014-08-06 13:07:16 service=kernel conserve=exit free="86704 pages" green="68811 pages"281: 2014-08-06 13:07:16 msg="Kernel leaves conserve mode"282: 2014-08-06

13:07:16 proxy=imd sysconserve=exited total=1008 free=349 marginenter=201283: 2014-08-06 13:07:16 marginexit=302

QUESTION 9

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

```
FortiGate # get router info routing-table database
S      0.0.0.0/0 [20/0] via 100.64.2.254, port2, [10/0]
S      *> 0.0.0.0/0 [10/0] via 100.64.1.254, port1

FortiGate # get router info routing-table all
S*     0.0.0.0/0 [10/0] via 100.64.1.254, port1
```

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

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

Correct Answer: D

**QUESTION 10**

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.

Correct Answer: A

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

QUESTION 11

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
```

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

- A. Phase 2 authentication is set to sha1 on both sides.
- B. Anti-replay is disabled.
- C. Hub2Spoke1 is a policy-based VPN.
- D. Hub2Spoke1 is configured on interface wan2.

Correct Answer: AD

QUESTION 12



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

Correct Answer: AD

QUESTION 13

The CLI command `set intelligent-mode` 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.

Correct Answer: C

Configuring IPS intelligence Starting 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`

QUESTION 14

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.

Correct Answer: D

QUESTION 15

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.

Correct Answer: AD

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