

# NSE7\_EFW-6.4<sup>Q&As</sup>

Fortinet NSE 7 - Enterprise Firewall 6.4

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### QUESTION 1

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.

Correct Answer: AC

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).

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### QUESTION 2

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 65501
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.

Correct Answer: B

### QUESTION 3

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.

Correct Answer: D

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#### QUESTION 4

When using the SSL certificate inspection method to inspect HTTPS traffic, how does FortiGate filter web requests when the client browser does not provide the server name indication (SNI) extension?

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

Correct Answer: B

---

#### QUESTION 5

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 ?og enable.
- D. Diagnose radius console ?og enable.

Correct Answer: B

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

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#### QUESTION 6

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.

Correct Answer: AC

### QUESTION 7

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.

Correct Answer: C

---

#### QUESTION 8

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.

Correct Answer: B

---

#### QUESTION 9

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

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

Correct Answer: AC

---

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

Correct Answer: AD

#### QUESTION 11

Examine the IPsec configuration shown in the exhibit; then answer the question below.

Name	<input type="text" value="Remote"/>
Comments	<input type="text" value="Comments"/>
Network	
IP Version	<input checked="" type="radio"/> IPv4 <input type="radio"/> IPv6
Remote Gateway	<input type="text" value="Static IP Address"/> <input checked="" type="checkbox"/>
IP Address	<input type="text" value="10.0.10.1"/>
Interface	<input type="text" value="port1"/> <input checked="" type="checkbox"/>
Mode Config	<input type="checkbox"/>
NAT Traversal	<input checked="" type="checkbox"/>
Keepalive Frequency	<input type="text" value="10"/>
Dead Peer Detection	<input checked="" type="checkbox"/>

An administrator wants to monitor the VPN by enabling the IKE real time debug using these commands: `diagnose vpn ike log-filter src-addr4 10.0.10.1` `diagnose debug application ike -1` `diagnose debug enable` The VPN is currently up, there is no traffic crossing the tunnel and DPD packets are being interchanged

between both IPsec gateways. However, the IKE real time debug does NOT show any output. Why isn't there any output?

- A. The IKE real time shows the phases 1 and 2 negotiations only. It does not show any more output once the tunnel is up.
- B. The log-filter setting is set incorrectly. The VPN's traffic does not match this filter.
- C. The IKE real time debug shows the phase 1 negotiation only. For information after that, the administrator must use the IPsec real time debug instead: `diagnose debug application ipsec -1`.
- D. The IKE real time debug shows error messages only. If it does not provide any output, it indicates that the tunnel is

operating normally.

Correct Answer: B

---

#### QUESTION 12

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.

Correct Answer: A

[http://docs-legacy.fortinet.com/fos40hlp/43prev/wwhelp/wwhimpl/common/html/wwhelp.htm?context=fgandfile=CLI\\_get\\_Commands.58.25.html](http://docs-legacy.fortinet.com/fos40hlp/43prev/wwhelp/wwhimpl/common/html/wwhelp.htm?context=fgandfile=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.

---

#### QUESTION 13

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.

Correct Answer: C

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

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#### QUESTION 14

Examine the partial output from two web filter debug commands; then answer the question below:

```
# diagnose test application urlfilter 3
Domain | IP      DB Ver   T URL
34000000| 34000000  16.40224 P Bhttp://www.fgt99.com/
# get webfilter categories
g07 General Interest - Business:
    34 Finance and Banking
    37 Search Engines and Portals
    43 General Organizations
    49 Business
    50 Information and Computer Security
    51 Government and Legal Organizations
    52 Information Technology
```

Based on the above outputs, which is the FortiGuard web filter category for the web site www.fgt99.com?

- A. Finance and banking
- B. General organization.
- C. Business.
- D. Information technology.

Correct Answer: C

---

#### QUESTION 15

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

Correct Answer: B

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