



NSE7_EFW-6.4^{Q&As}

Fortinet NSE 7 - Enterprise Firewall 6.4

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QUESTION 1

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.

Correct Answer: AB

Area 0.0.0.0 is the backbone area.

QUESTION 2

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. 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.

Correct Answer: AC

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

QUESTION 3

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 4

Which configuration can be used to reduce the number of BGP sessions in an IBGP network?

- A. Neighbor range
- B. Route reflector
- C. Next-hop-self
- D. Neighbor group

Correct Answer: B

Route reflectors help to reduce the number of IBGP sessions inside an AS. A route reflector forwards the routes learned from one peer to the other peers. If you configure route reflectors, you don't need to create a full mesh IBGP network. All clients in a cluster only talk to route reflector to get sync routing updates. Route reflectors pass the routing updates to other route reflectors and border routers within the AS.

QUESTION 5

View the IPS exit log, and then answer the question below.

```
# diagnose test application ipsmonitor 3 ipsengine exit log"
```

```
pid = 93 (cfg), duration = 5605322 (s) at Wed Apr 19 09:57:26 2017 code = 11, reason: manual What is the status of IPS on this FortiGate?
```

- A. IPS engine memory consumption has exceeded the model-specific predefined value.
- B. IPS daemon experienced a crash.
- C. There are communication problems between the IPS engine and the management database.
- D. All IPS-related features have been disabled in FortiGate's configuration.

Correct Answer: D

The command `diagnose test application ipsmonitor` includes many options that are useful for troubleshooting purposes. Option 3 displays the log entries generated every time an IPS engine process stopped. There are various reasons why these logs are generated: Manual: Because of the configuration, IPS no longer needs to run (that is, all IPS-related features have been disabled)