



# NSE7\_EFW-6.2<sup>Q&As</sup>

Fortinet NSE 7 - Enterprise Firewall 6.2

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**QUESTION 1**

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://docslegacy.fortinet.com/fos40hlp/43prev/wwhelp/wwhimpl/common/html/wwhelp.htm?context=fgtandfile=CLI\\_get\\_Commands.58.25.html](http://docslegacy.fortinet.com/fos40hlp/43prev/wwhelp/wwhimpl/common/html/wwhelp.htm?context=fgtandfile=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.

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**QUESTION 2**

An administrator has configured a dial-up IPsec VPN with one phase 2, extended authentication (XAuth) and IKE mode configuration. The administrator has also enabled the IKE real time debug:

```
diagnose debug application ike-1
```

```
diagnose debug enable
```

In which order is each step and phase displayed in the debug output each time a new dial-up user is connecting to the VPN?

- A. Phase1; IKE mode configuration; XAuth; phase 2.
- B. Phase1; XAuth; IKE mode configuration; phase2.
- C. Phase1; XAuth; phase 2; IKE mode configuration.
- D. Phase1; IKE mode configuration; phase 2; XAuth.

Correct Answer: B

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-ipsecvpn-54/IPsec\\_VPN\\_Concepts/IKE\\_Packet\\_Processing.htm](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-ipsecvpn-54/IPsec_VPN_Concepts/IKE_Packet_Processing.htm)

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**QUESTION 3**

An administrator has enabled HA session synchronization in a HA cluster with two members. Which flag is added to a primary unit's session to indicate that it has been synchronized to the secondary unit?

- A. redir.
- B. dirty.
- C. synced
- D. nds.

Correct Answer: C

The synced sessions have the `synced` flag. The command `diag sys session list` can be used to see the sessions on the member, with the associated flags.

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**QUESTION 4**

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.

Correct Answer: BDE

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**QUESTION 5**

Examine the output of the `diagnose sys session list expectation` command shown in the exhibit; then 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 sockos=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
gw=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
```

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.

Correct Answer: D

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