NSE7_EFW-6.4 Q&As

Fortinet NSE 7 - Enterprise Firewall 6.4

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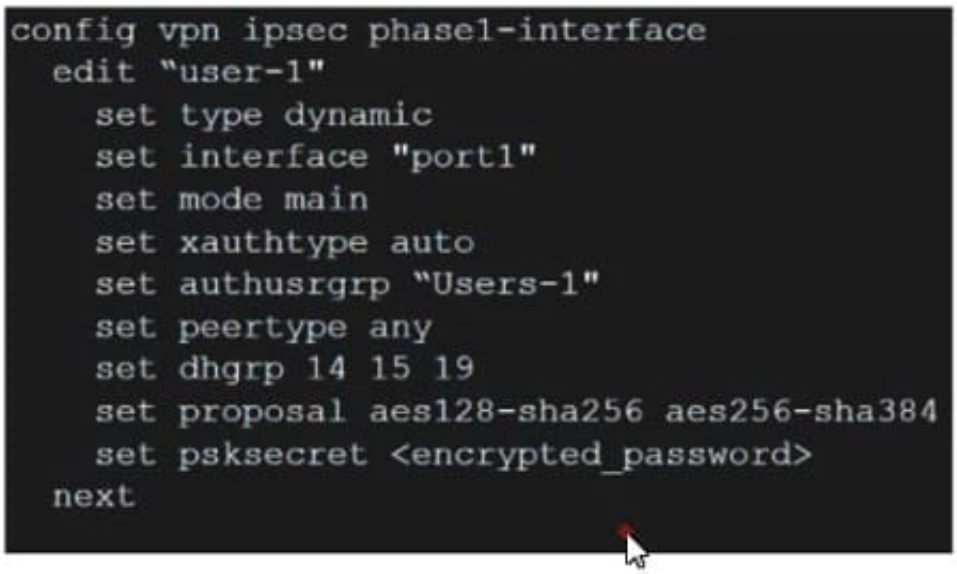
QUESTION 1

Refer to the exhibits.



Which contain the partial configurations of two VPNs on FortiGate.

An administrator has configured two VPNs for two different user groups. Users who are in the Users-2 group are not able to connect to the VPN. After running a diagnostics command, the administrator discovered that FortiGate is not matching the user-2 VPN for members of the Users-2 group.

Which two changes must administrator make to fix the issue? (Choose two.)

A. Use different pre-shared keys on both VPNs

B. Enable Mode Config on both VPNs.

C. Set up specific peer IDs on both VPNs.

D. Change to aggressive mode on both VPNs.

Correct Answer: CD

QUESTION 2

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

QUESTION 3

View the exhibit, which contains the partial output of a diagnose command, and then answer the question below.

```
Spoke-2 # dia vpn tunnel list
list all ipsec tunnel in vd 0
name=VPN ver=1 serial=1 10.200.5.1:0->10.200.4.1:0
bound_if=3 lgwy=static/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refcnt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000 ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
proxyid=VPN proto=0 sa=1 ref=2 serial=1
  src: 0:10.1.2.0/255.255.0:0
  dst: 0:10.1.1.0/255.255.255.0:0
  SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/0B replaywin=2048 seqno=1 esn=0
replaywin_lastseq=00000000
  life: type=01 bytes=0/0 timeout=43177/43200
  dec: spi=ccc1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
     ah=sha1 key=20 c68091d68753578785de6a7a6b276b506c527efe
  enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
  ah=sha1 key20 889f7529887c215c25950be2ba83e6fe1a5367be
  dec:pkts/bytes=0/0, enc:pkts/bytes=0/0
```

Based on the output, which of the following statements is correct?

A. Anti-reply is enabled.

B. DPD is disabled.

C. Quick mode selectors are disabled.

D. Remote gateway IP is 10.200.5.1.

Correct Answer: A

QUESTION 4

View the exhibit, which contains a partial routing table, and then answer the question below.

```
FGT # get router info routing-table all
...
Routing table for VRF=7
C       10.73.9.0/24 is directly connected, port2

Routing table for VRF=12
C       10.1.0.0/24 is directly connected, port3
S       10.10.4.0/24 [10/0] via 10.1.0.100, port3
C       10.64.1.0/24 is directly connected, port1

Routing table for VRF=21
S       10.1.0.0/24 [10/0] via 10.72.3.254, port4
C       10.72.3.0/24 is directly connected, port4
S       192.168.2.0/24 [10/0] via 10.72.3.254, port4
...
```

Assuming all the appropriate firewall policies are configured, which of the following pings will FortiGate route? (Choose two.)

A. Source IP address 10.1.0.24, Destination IP address 10.72.3.20.

B. Source IP address 10.72.3.27, Destination IP address 10.1.0.52.

C. Source IP address 10.72.3.52, Destination IP address 10.1.0.254.

D. Source IP address 10.73.9.10, Destination IP address 10.72.3.15.

Correct Answer: BC

QUESTION 5

View the exhibit, which contains the output of a diagnose command, and then answer the question below.

```
     diagnose sys session list expectation

session info: proto=6 proto_state-00 duration=3 expire=26 timeout=3600 flags=00000000
sockflag=C0000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-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
orgin->sink: org pre->post, reply pre->post dev=2->4/4->2 gwy=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
```

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

A. This is an expected session created by a session helper.

B. Traffic in the original direction (coming from the IP address 10.171.122.38) will be routed to the next-hop IP address 10.0.1.10.

C. Traffic in the original direction (coming from the IP address 10.171.122.38) will be routed to the next-hop IP address 10.200.1.1.

D. This is an expected session created by an application control profile.

Correct Answer: AC

QUESTION 6

Examine the following partial output from a sniffer command; then answer the question below.

```
# diagnose sniff packet any 'icmp' 4
interfaces= [any]
filters = [icmp]
2.101199 wan2 in 192.168.1.110-> 4.2.2.2: icmp: echo request
2.101400 wan1 out 172.17.87.16-> 4.2.2.2: icmp: echo request
.....
2.123500 wan2 out 4.2.2.2-> 192.168.1.110: icmp: echo reply
244 packets received by filter
5 packets dropped by kernel
```

What is the meaning of the packets dropped counter at the end of the sniffer?

A. Number of packets that didn\\'t match the sniffer filter.

B. Number of total packets dropped by the FortiGate.

C. Number of packets that matched the sniffer filter and were dropped by the FortiGate.

D. Number of packets that matched the sniffer filter but could not be captured by the sniffer.

Correct Answer: D

https://kb.fortinet.com/kb/documentLink.do?externalID=11655

QUESTION 7

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 8

What conditions are required for two FortiGate devices to form an OSPF adjacency? (Choose three.)

A. IP addresses are in the same subnet.

B. Hello and dead intervals match.

C. OSPF IP MTUs match.

D. OSPF peer IDs match.

E. OSPF costs match.

Correct Answer: ABC

https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-advanced-routing- 54/Routing_OSPF/OSPF_Background_Concepts.htm#Adjacenc

QUESTION 9

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
BAF47D0988E9237F2F405EF3952F6FDA01100400000000000000001AE0400003C000000010000000100000030010100
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
BAF47D0988E9237F2F405EF3952F6FDA08100401000000000000000801400001 81F2E48BFD8E9D603F
ike 0: RemoteSite:4: out
BAF47D0988E9237F2F405EF3952F6FDA0810040100000000000000008c2E3FC9BA061816A396F009A12
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 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

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 12

When does a RADIUS server send an Access-Challenge packet?

A. The server does not have the user credentials yet.

B. The server requires more information from the user, such as the token code for two- factor authentication.

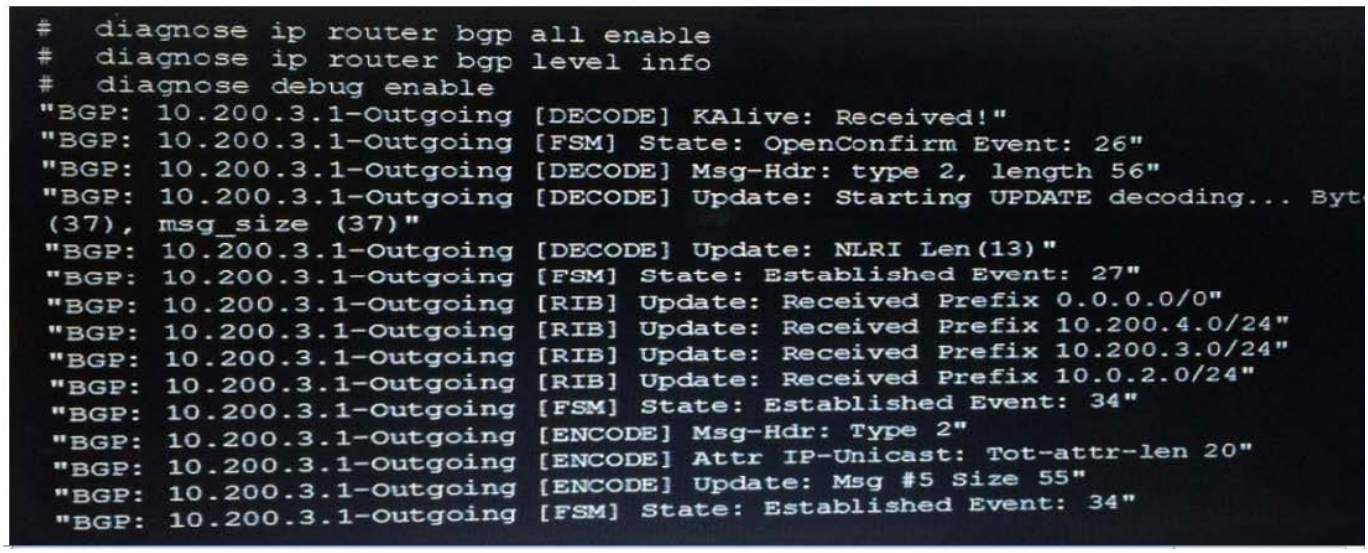
C. The user credentials are wrong.

D. The user account is not found in the server.

Correct Answer: B

QUESTION 13

Examine the output from the BGP real time debug shown in the exhibit, then the answer the question below:



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

A. BGP peers have successfully interchanged Open and Keepalive messages.

B. Local BGP peer received a prefix for a default route.

C. The state of the remote BGP peer is OpenConfirm.

D. The state of the remote BGP peer will go to Connect after it confirms the received prefixes.

Correct Answer: AB

QUESTION 14

A FortiGate is rebooting unexpectedly without any apparent reason. What troubleshooting tools could an administrator use to get more information about the problem? (Choose two.)

A. Firewall monitor.

B. Policy monitor.

C. Logs.

D. Crashlogs.

Correct Answer: CD

QUESTION 15

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

A. FortiGate uses CN information from the Subject field in the server\\'s certificate.

B. FortiGate switches to the full SSL inspection method to decrypt the data.

C. FortiGate blocks the request without any further inspection.

D. FortiGate uses the requested URL from the user\\'s web browser.

Correct Answer: A