NSE7_EFW-6.4 $^{Q\&As}$

Fortinet NSE 7 - Enterprise Firewall 6.4

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QUESTION 1

View the exhibit, which contains a session entry, and then answer the question below.

```
session info: proto=1 proto_state=00 duration=1 expire=59 timeout=0 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=log may_dirty none
statistic(bytes/packets/allow_err): org=168/2/1 reply=168/2/1 tuples=2
tx speed(Bps/kbps): 97/0 rx speed(Bps/kbps): 97/0
orgin->sink: org pre->post, reply pre->post dev=9->3/3->9 gwy=10.200.1.254/10.1.0.1
hook=post dir=org act=snat 10.1.10.10:40602->10.200.5.1:8(10.200.1.254/10.1.0.1
hook=pre dir=reply act=dnat 10.200.5.1:60430->10.200.1.1:0(10.1.10.10:40602)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=0002a5c9 tos=ff/ff app_list=0 app=0 url_cat=0
dd_type=0 dd_mode=0
```

Which statement is correct regarding this session?

A. It is an ICMP session from 10.1.10.10 to 10.200.1.1.

B. It is an ICMP session from 10.1.10.10 to 10.200.5.1.

C. It is a TCP session in ESTABLISHED state from 10.1.10.10 to 10.200.5.1.

D. It is a TCP session in CLOSE_WAIT state from 10.1.10.10 to 10.200.1.1.

Correct Answer: B

QUESTION 2

An administrator added the following Ipsec VPN to a FortiGate configuration: configvpn ipsec phasel -interface edit "RemoteSite" set type dynamic set interface "portl" set mode main set psksecret ENC LCVkCiK2E2PhVUzZe next end config vpn ipsec phase2-interface edit "RemoteSite" set phasel name "RemoteSite" set proposal 3des-sha256 next end However, the phase 1 negotiation is failing. The administrator executed the IKF real time debug while

attempting the Ipsec connection. The output is shown in the exhibit.

```
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=2....
ike 0: IKEv1 exchange=Identity Protection id=xxx/xxx len=716
ike 0:xxx/xxx:16: responder: main mode get 1st message...
ike 0:xxx/xxx:16: VID RFC 3947 4A131C81070358455C5728F20E95452F
...
ike 0:xxx/xxx:16: negotiation result
ike 0:xxx/xxx:16: proposal id = 1:
ike 0:xxx/xxx:16:    protocol id = ISAKMP:
ike 0:xxx/xxx:16:       trans_id = KEY_IKE.
ike 0:xxx/xxx:16:       encapsulation = IKE/none
ike 0:xxx/xxx:16:          type=OAKLEY_ENCRYPT_ALG, val=AES_CBC.
ike 0:xxx/xxx:16:          type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:xxx/xxx:16:          type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:xxx/xxx:16:          type=OAKLEY_GROUP, val=MODP2048.
ike 0:xxx/xxx:16: ISAKMP SA lifetime=86400
ike 0:xxx/xxx:16: SA proposal chosen, matched gateway DialUpUsers
...
ike 0:DialUpUsers:16: sent IKE msg (ident_r1send): 10.200.1.1:500->10.200.3.1:500, len
id=xxx/xxx
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=2....
ike 0: IKEv1 exchange=Identity Protection id=xxx/xxx len=380
ike 0:DialUpUsers:16: responder:main mode get 2nd message...
ike 0:DialUpUsers:16: NAT not detected
ike 0:DialUpUsers:16: sent IKE msg (ident_r2send): 10.200.1.1:500->10.200.3.1:500, len
id=xxx/xxx
ike 0:DialUpUsers:16: ISAKMP SA xxx/xxx key 16:3D33E2EF00BE927701B5C25B05A62415
ike 0: comes 10.200.3.1:500->10.200.1.1:500,ifindex=2....
ike 0: IKEv1 exchange=Identity Protection id=xxx/xxx len=108
ike 0:DialUpUsers:16: responder: main mode get 3rd message...
ike 0:DialUpUsers:16: probable pre-shared secret mismatch
ike 0:DialUpUsers:16: unable to parse msg
```

What is causing the IPsec problem in the phase 1 ?

A. The incoming IPsec connection is matching the wrong VPN configuration

B. The phrase-1 mode must be changed to aggressive

C. The pre-shared key is wrong

D. NAT-T settings do not match

Correct Answer: C

QUESTION 3

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

diagnose webfilter fortiguard statistics list

Raring Statistics:
=============================

DNS filures	:	273
DNS lookups	:	280
Data send failures	:	0
Data read failures	:	0
Wrong package type	:	0
Hash table miss	:	0
Unknown server	:	0
Incorrect CRC	:	0
Proxy requests failures	:	0
Request timeout	:	1
Total requests	:	2409
Requests to FortiGuard servers	:	1182
Server errored responses	:	0
Relayed rating	:	0
Invalid profile	:	0
Allowed	:	1021
Blocked	:	3909
Logged	:	3927
Blocked Errors	:	565
Allowed Errors	:	0
Monitors	:	0
Authenticates	:	0
Warnings	:	18
Ovrd request timeout	:	0
Ovrd send failures	:	0
Ovrd read failures	:	0
Ovrd errored responses	:	0
...		

diagnose webfilter fortiguard statistics list

Cache Statistics:
=====================

Maximum memory	:	0
Memory usage	:	0
Nodes	:	0
Leaves	:	0
Prefix nodes	:	0
Exact nodes	:	0
Requests	:	0
Misses	:	0
Hits	:	0
Prefix hits	:	0
Exact hits	:	0
No cache directives	:	0
Add after prefix	:	0
Invalid DB put	:	0
DB updates	:	0
Percent full	:	0%
Branches	:	0%
Leaves	:	0%
Prefix nodes	:	0%
Exact nodes	:	0%
Miss rate	:	0%
Hit rate	:	0%
Prefix hits	:	0%
Exact hits	:	0%

Which one of the following statements explains why the cache statistics are all zeros?

A. The administrator has reallocated the cache memory to a separate process.

B. There are no users making web requests.

C. The FortiGuard web filter cache is disabled in the FortiGate\\'s configuration.

D. FortiGate is using a flow-based web filter and the cache applies only to proxy-based inspection.

Correct Answer: C

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

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-releated features have been disabled)

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