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Exam : NSE7_EFW-6.4

Title : Fortinet NSE 7 - Enterprise Firewall 6.4

Version : DEMO

1. Refer to the exhibit, which contains partial output from an IKE real-time debug.

```
ike 0: comes 10.0.0.2:500->10.0.0.1:500, ifindex=7. . .
ike 0: IKEv2 exchange=Aggressive id=a2fbd6bb6394401a/06b89c022d4df682 len=426
ike 0: Remotesite:3: initiator: aggressive mode get 1st response. . .
ike 0: Remotesite:3: VID DPD AFCAD71368A1F1C96B8696FC77570100
ike 0: Remotesite:3: DPD negotiated
ike 0: Remotesite:3: VID FORTIGATE 8299031757A36082C6A621DE00000000
ike 0: Remotesite:3: peer is FortiGate/FortiOS (v0 b0)
ike 0: Remotesite:3: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3
ike 0: Remotesite:3: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000
ike 0: Remotesite:3: received peer identifier FQDN 'remote'
ike 0: Remotesite:3: negotiation result
ike 0: Remotesite:3: proposal id = 1:
ike 0: Remotesite:3:     protocol id = ISAKMP:
ike 0: Remotesite:3:     trans_id = KEY_IKE.
ike 0: Remotesite:3:     encapsulation = IKE/none.
ike 0: Remotesite:3:     type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0: Remotesite:3:     type=OAKLEY_HASH_ALG, val=SHA.
ike 0: Remotesite:3:     type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: Remotesite:3:     type=OAKLEY_GROUP, val=MODP1024.
ike 0: Remotesite:3: ISAKMP SA lifetime=86400
ike 0: Remotesite:3: NAT-T unavailable
ike 0: Remotesite:3: ISAKMP SA a2fbd6bb6394401a/06b89c022d4df682 key
16:39915120ED73ED73E520787C801DE3678916
ike 0: Remotesite:3: PSK authentication succeeded
ike 0: Remotesite:3: authentication OK
ike 0: Remotesite:3: add INITIAL-CONTACT
ike 0: Remotesite:3: enc
A2FBD6BB6394401A06B89C022D4DF6820810040100000000000000500B000018882A07BE09026CA8B2
ike 0: Remotesite:3: out
A2FBD6BB6394401A06B89C022D4DF6820810040100000000000000500B000018882A07BE09026CA8B2
ike 0: Remotesite:3: sent IKE msg (agg_i2send): 10.0.0.1:500->10.0.0.2:500, len=140,
id=a2fbd6bb6394401a/
ike 0: Remotesite:3: established IKE SA a2fbd6bb6394401a/06b89c022d4df682
```

Which two statements about this debug output are correct? (Choose two.)

- A. The remote gateway IP address is 10.0.0.1.
- B. The initiator provided remote as its IPsec peer ID.
- C. It shows a phase 1 negotiation.
- D. The negotiation is using AES128 encryption with CBC hash.

Answer: B,C

2. A FortiGate has two default routes:

```

config router static
  edit 1
    set gateway 10.200.1.254
    set priority 5
    set device "port1"
  next
  edit 2
    set gateway 10.200.2.254
    set priority 10
    set device "port2"
  next
end

```

All Internet traffic is currently using port1. The exhibit shows partial information for one sample session of Internet traffic from an internal user:

```

# diagnose sys session list
Session info: proto=6 proto_state=01 duration =17 expire=7 timeout=3600
flags= 00000000 sockflag=00000000 sockport=0 av idx=0 use=3
ha_id=0 policy_dir=0 tunnel=/
state=may_dirty none app_ntf
statistic (bytes/packets/allow_err): org=575/7/1 reply=23367/19/1 tuples=2
origin->sink: org pre->post, reply pre->post dev=4->2/2->4
gwy=10.200.1.254/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:64907-
>54.239.158.170:80(10.200.1.1:64907)
hook=pre dir=reply act=dnat 54.239.158.170:80-
>10.200.1.1:64907(10.0.1.10:64907)
pos/(before, after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000294 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0

```

What would happen with the traffic matching the above session if the priority on the first default route (IDd1) were changed from 5 to 20?

- A. The session would be deleted, and the client would need to start a new session.
- B. The session would remain in the session table, and its traffic would start to egress from port2.
- C. The session would remain in the session table, but its traffic would now egress from both port1 and port2.
- D. The session would remain in the session table, and its traffic would still egress from port1.

Answer: D

3.View the central management configuration shown in the exhibit, and then answer the question below.

```
config system central-management
  set type fortimanager
  set fmg "10.0.1.242"
  config server-list
    edit 1
      set server-type rating
      set server-address 10.0.1.240
    next
    edit 2
      set server-type update
      set server-address 10.0.1.243
    next
    edit 3
      set server-type rating
      set server-address 10.0.1.244
    next
  end
  set include-default-servers enable
end
```

Which server will FortiGate choose for antivirus and IPS updates if 10.0.1.243 is experiencing an outage?

- A. 10.0.1.240
- B. One of the public FortiGuard distribution servers
- C. 10.0.1.244
- D. 10.0.1.242

Answer: B

4.Examine the following partial outputs from two routing debug commands; then answer the question below:

```
#get router info routing-table database
S    0.0.0.0/. [20/0] via 10.200.2.254, port2, [10/0]
S    *> 0.0.0.0/0 [10/0] via 10.200.1.254, port1
# get router info routing-table all
S*   0.0.0.0/0 [10/0] via 10.200.1.254, port1
```

Why the default route using port2 is not displayed in the output of the second command?

- A. It has a lower priority than the default route using port1.
- B. It has a higher priority than the default route using port1.
- C. It has a higher distance than the default route using port1.
- D. It is disabled in the FortiGate configuration.

Answer: C

Explanation:

<http://kb.fortinet.com/kb/viewContent.do?externalId=FD32103>

5. 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.

Answer: B

Explanation:

https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-ipsecvpn-54/IPsec_VPN_Concepts/IKE_Packet_Processing.htm