



# Fortinet

## Exam Questions NSE7\_EFW-7.0

Fortinet NSE 7 - Enterprise Firewall 7.0

## About ExamBible

*[Your Partner of IT Exam](#)*

## Found in 1998

ExamBible is a company specialized on providing high quality IT exam practice study materials, especially Cisco CCNA, CCDA, CCNP, CCIE, Checkpoint CCSE, CompTIA A+, Network+ certification practice exams and so on. We guarantee that the candidates will not only pass any IT exam at the first attempt but also get profound understanding about the certificates they have got. There are so many alike companies in this industry, however, ExamBible has its unique advantages that other companies could not achieve.

## Our Advances

### \* 99.9% Uptime

All examinations will be up to date.

### \* 24/7 Quality Support

We will provide service round the clock.

### \* 100% Pass Rate

Our guarantee that you will pass the exam.

### \* Unique Gurantee

If you do not pass the exam at the first time, we will not only arrange FULL REFUND for you, but also provide you another exam of your claim, ABSOLUTELY FREE!

### NEW QUESTION 1

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

```
FGT # 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
100.64.3.1    4  65501    101      115     0      0     0    never          Active

Total number of neighbors 3
```

Which of the following statements about the exhibit are true? (Choose two.)

- A. The local router's BGP state is Established with the 10.125.0.60 peer.
- B. Since the counters were last reset, the 10.200.3.1 peer has never been down.
- C. The local router has received a total of three BGP prefixes from all peers.
- D. The local router has not established a TCP session with 100.64.3.1.

**Answer:** AD

### NEW QUESTION 2

Which two conditions must be met for a statistic route to be active in the routing table? (Choose two.)

- A. The link health monitor (if configured) is up.
- B. There is no other route, to the same destination, with a higher distance.
- C. The outgoing interface is up.
- D. The next-hop IP address is up.

**Answer:** AC

### NEW QUESTION 3

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

```
# get router info kernel
tab=254 vf=0 scope=0type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.1.254 dev=2(port1)
tab=254 vf=0 scope=0type=1 proto=11 prio=10 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.2.254 dev=3(port2)
tab=254 vf=0 scope=253type=1 proto=2 prio=0 0.0.0.0/0.0.0.0/->10.0.1.0/24 pref=10.0.1.254
gwy=0.0.0.0 dev=4(port3)
# get router info routing-table all s*0.0.0.0/ [10/0] via 10.200.1.254, port1 [10/0] via 10.200.2.254, port2, [10/0] d0.0.1.0/24 is directly connected, port3
d0.200.1.0/24 is directly connected, port1 d0.200.2.0/24 is directly connected, port2
```

Which outbound interface or interfaces will be used by this FortiGate to route web traffic from internal users to the Internet?

- A. port1
- B. port2.
- C. Both port1 and port2.
- D. port3.

**Answer:** B

### NEW QUESTION 4

Refer to the exhibit, which shows a session table entry.

```
FGT # diagnose sys session list
session info: proto=6 proto_state=11 duration=35 expire=265 timeout=300 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=4
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=redir local may_dirty none app_ntf
statistic(bytes/packets/allow_err): org=3208/25/1 reply=11144/29/1 tuples=2
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
origin->sink: org pre->post, reply pre->post dev=7->6/6->7 gwy=172.20.121.2/10.0.0.2
hook=post dir=org act=snat 192.167.1.100:49545->216.58.216.238:443(172.20.121.96:49545)
hook=pre dir=reply act=dnat 216.58.216.238:443->172.20.121.96:49545(192.167.1.100:49545)
pos/(before,after) 0/(0,0), 0/(0,0)
src_mac=08:5b:0e:6c:7b:7a
misc=0 policy_id=21 auth_info=0 chk_client_info=0 vd=0
serial=007f2948 tos=ff/ff app_list=0 app=0 url_cat=41
rpd_b_link_id = 00000000
dd_type=0 dd_mode=0
npu_state=00000000
npu info: flag=0x00/0x00, offload=0/0, ips_offload=0/0, epid=0/0, ipid=0/0, vlan=0x0000/0x0000
vlifid=0/0, vtag_in=0x0000/0x0000 in_npu=0/0, out_npu=0/0, fwd_en=0/0, qid=0/0
```

Which statement about FortiGate behavior relating to this session is true?

- A. FortiGate redirected the client to the captive portal to authenticate, so that a correct policy match could be made.
- B. FortiGate forwarded this session without any inspection.
- C. FortiGate is performing security profile inspection using the CP
- D. FortiGate applied only IPS inspection to this session.

**Answer: C**

**Explanation:**

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 91, 92 First digit of "proto\_state" value at 1 and considering all counters are at 0 for HW acceleration means CPU usage

**NEW QUESTION 5**

Refer to the exhibit, which shows a central management configuration.

```
config system central-management
  set type fortimanager
  set fmg "10.0.1.242"
  config server-list
    edit 1
      set server-type rating
      set addr-type ipv4
      set server-address 10.0.1.240
    next
    edit 2
      set server-type update
      set addr-type ipv4
      set server-address 10.0.1.243
    next
    edit 3
      set server-type rating
      set addr-type ipv4
      set server-address 10.0.1.244
    next
  end
  set include-default-servers enable
end
```

Which server will FortiGate choose for web filter rating requests, if 10.0.1.240 is experiencing an outage?

- A. Public FortiGuard servers
- B. 10.0.1.243
- C. 10.0.1.242
- D. 10.0.1.244

**Answer: D**

**Explanation:**

by default, ( include-default-servers ) enabled .this allows fortigate to communicate with the public fortiguard servers , if the fortimanager devices (configured in server-list) are unavailable .

**NEW QUESTION 6**

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: IKEv1 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 16:39915120ED73E520787C801DE3678916
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 A2FBD6BB6394401A06B89C022D4DF682081004010000000000000500B000018882A078E09026CA8B2
ike 0:Remotesite:3: out A2FBD6BB6394401A06B89C022D4DF6820810040100000000000005C64D5CBA90B873F150CB8B5CC2A
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 initiator provided remote as its IPsec peer ID.
- B. It shows a phase 2 negotiation.
- C. Perfect Forward Secrecy (PFS) is enabled in the configuration.
- D. The local gateway IP address is 10.0.0.1.

**Answer:** AD

**Explanation:**

A because : received peer identifier FQDN 'remote' D because : ike 0: comes 10.0.0.2:500 -> 10.0.0.1:500

**NEW QUESTION 7**

Which ADVPN configuration must be configured using a script on FortiManager, when using VPN Manager to manage FortiGate VPN tunnels?

- A. Set protected network to all
- B. Enable AD-VPN in IPsec phase 1
- C. Configure IP addresses on IPsec virtual interfaces
- D. Disable add-route on hub

**Answer:** B

**NEW QUESTION 8**

The CLI command set intelligent-mode <enable | disable> controls the IPS engine's adaptive scanning behavior. Which of the following statements describes IPS adaptive scanning?

- A. Determines the optimal number of IPS engines required based on system load.
- B. Downloads signatures on demand from FDS based on scanning requirements.
- C. Determines when it is secure enough to stop scanning session traffic.
- D. Choose a matching algorithm based on available memory and the type of inspection being performed.

**Answer:** C

**Explanation:**

Configuring IPS intelligenceStarting with FortiOS 5.2, intelligent-mode is a new adaptive detection method. This command is enabled the default and it means that the IPS engine will perform adaptive scanning so that, for some traffic, the FortiGate can quickly finish scanning and offload the traffic to NPU or kernel. It is a balanced method which could cover all known exploits. When disabled, the IPS engine scans every single byte.  
 config ips globalset intelligent-mode {enable|disable}end

**NEW QUESTION 9**

Refer to the exhibit, which shows partial outputs from two routing debug commands.

```
FortiGate # get router info kernel
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=100.64.1.254 dev=3(port1)
tab=254 vf=0 scope=0 type=1 proto=11 prio=10 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=100.64.2.254 dev=6(port2)
tab=254 vf=0 scope=253 type=1 proto=2 prio=0 0.0.0.0/0.0.0.0/0->10.1.0.0/24 pref=10.1.0.254 gwy=0.0.0.0 dev=9(port3)

FortiGate # get router info routing-table all

Routing table for VRF=0
S*    0.0.0.0/0 [10/0] via 100.64.1.254, port1
      [10/0] via 100.64.2.254, port2, [10/0]
C     10.1.0.0/24 is directly connected, port3
S     10.1.10.0/24 [10/0] via 10.1.0.1, port3
C     100.64.1.0/24 is directly connected, port1
C     100.64.2.0/24 is directly connected, port2
```

Which change must an administrator make on FortiGate to route web traffic from internal users to the internet, using ECMP?

- A. Set the priority of the static default route using port1 to 10. Most Voted
- B. Set the priority of the static default route using port2 to 1.
- C. Set preserve-session-route to enable.
- D. Set snat-route-change to enable.

**Answer: A**

#### Explanation:

ECMP pre-requisite is "routes must have the same destination and costs. In the case of static routes, costs include distance and priority". In this case traffic is routed through port 1 because of the lower priority. If we raise priority on port 1 to the value of 10 the traffic should be routed through both ports 1 and 2.  
<https://docs.fortinet.com/document/fortigate/7.0.1/administration-guide/25967/equal-cost-multi-path>

#### NEW QUESTION 10

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
BAF47D0988E9237F2F405EF3952F6FDA0110040000000000000001AE0400003C0000000100000001000000300101000
ike 0: RemoteSite:4: initiator: aggressive mode get 1st response
ike 0: RemoteSite:4: VID RPC 3947 4A131C81070358455C5728F20E95452F
ike 0: RemoteSite:4: VID DPD APCAD71368A1F1c96B8696FC77570100
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=MODP1024.
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
BAF47D0988E9237F2F405EF3952F6FDA081004010000000000000080140000181F2E48BFD8E9D603F
ike 0: RemoteSite:4: out
BAF47D0988E9237F2F405EF3952F6FDA08100401000000000000008c2E3FC9BA061816A396F009A12
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.

**Answer: BD**

#### NEW QUESTION 10

Refer to the exhibit, which contains the partial output of a diagnose command.



```
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=20000ms 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: 0:10.1.2.0/255.255.255.0:0
  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=ccclf66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
    ah=sha1 key=20 c68091d68753578785de6a7a6b276b506c527efe
enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
    ah=sha1 key=20 889f7529887c215c25950be2ba83e6fe1a5367be
dec: pkts/bytes=0/0, enc:pkts/bytes=0/0
```

Based on the output, which two statements are correct? (Choose two.)

- A. Anti-replay is enabled
- B. The remote gateway IP is 10.200.4.1.
- C. DPD is disabled.
- D. Quick mode selectors are disabled.

**Answer:** AB

#### NEW QUESTION 13

Refer to the exhibit, which contains the partial output of the get vpn ipsec tunnel details command.

```
Hub # get vpn ipsec tunnel details
gateway
  name: 'Hub2Spoke1'
  type: route-based
  local-gateway: 10.10.1.1:0 (static)
  remote-gateway: 10.10.2.2:0 (static)
  mode: ike-v1
  interface: 'wan2' (6)
  rx packets: 1025 bytes: 524402 errors: 0
  tx packets: 641 bytes: 93 errors: 0
  dpd: on-demand/negotiated idle: 20000ms retry: 3 count: 0
  selectors
    name: 'Hub2Spoke1'
    auto-negotiate: disable
    mode: tunnel
    src: 0:192.168.1.0/0.0.0.0:0
    dst: 0:10.10.20.0/0.0.0.0:0
    SA
      lifetime/rekey: 43200/32137
      mtu: 1438
      tx-esp-seq: 2ce
      replay: enabled
      inbound
        spi: 01e54b14
        enc: aes-cb 914dc5d092667ed436ea7f6efb867976
        auth: sha1 a81b019d4cdfda32ce51e6b01d0b1ea42a74adce
      outbound
        spi: 3dd3545f
        enc: aes-cb 017b8ff6c4ba21eac99b22380b7de74d
```

Based on the output, which two statements are correct? (Choose two.)

- A. Phase 2 authentication is set to sha1 on both sides.
- B. Anti-replay is disabled.
- C. Hub2Spoke1 is a policy-based VPN.
- D. Hub2Spoke1 is configured on interface wan2.

**Answer:** AD

#### NEW QUESTION 18

Refer to the exhibit, which contains a CLI script configuration on FortiManager.

Script Name	Static Route
Comments	<div>0/255</div> <div>0/255</div>
Type	CLI Script
Run script on	Remote FortiGate Directly (...)
Script details	<pre># conf rout stat #     edit 0 #         set gateway 10.20.121.2 #         set priority 20 #         set device "wan1" #     next # end</pre>

An administrator configured the CLI script on FortiManager, but the script failed to apply any changes to the managed device after being executed. What are two reasons why the script did not make any changes to the managed device? (Choose two.)

- A. Static routes can be added using only TCL scripts.
- B. The commands that start with the # sign did not run.
- C. CLI scripts must start with #!.
- D. Incomplete commands can cause CLI scripts to fail.

**Answer:** BD

**Explanation:**

ref CLI scripts do not include Tool Command Language (Tcl) commands, and the first line of the script is not “#!” as it is for Tcl scripts.  
[https://help.fortinet.com/fmgr/50hlp/56/5-6-1/FortiManager\\_Admin\\_Guide/1000\\_Device%20Manager/2400\\_Sc](https://help.fortinet.com/fmgr/50hlp/56/5-6-1/FortiManager_Admin_Guide/1000_Device%20Manager/2400_Sc)

**NEW QUESTION 22**

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.

**Answer:** B

**NEW QUESTION 23**

Which two statements about OCVPN are true? (Choose two.)



- A. Only root vdom supports OCVPN.
- B. OCVPN supports static and dynamic IPs in WAN interface.
- C. OCVPN offers only Hub-Spoke VPNs.
- D. FortiGate devices under different FortiCare accounts can be used to form OCVPN.

**Answer:** AB

#### NEW QUESTION 25

Examine the partial output from two web filter debug commands; then answer the question below:

```
# diagnose test application urlfilter 3
Domain | IP      DB Ver   T URL
34000000| 34000000   16.40224 P Bhttp://www.fgt99.com/
# get webfilter categories
g07 General Interest - Business:
    34 Finance and Banking
    37 Search Engines and Portals
    43 General Organizations
    49 Business
    50 Information and Computer Security
    51 Government and Legal Organizations
    52 Information Technology
```

Based on the above outputs, which is the FortiGuard web filter category for the web site www.fgt99.com?

- A. Finance and banking
- B. General organization.
- C. Business.
- D. Information technology.

**Answer:** C

#### NEW QUESTION 26

An LDAP user cannot authenticate against a FortiGate device. Examine the real time debug output shown in the exhibit when the user attempted the authentication; then answer the question below.

```
# debug application fnbamd -1
# diagnose debug enable
# diagnose test authserver ldap WindowsLDAP student password
fnbamd_fsm.c[1819] handle_req-Rcvd auth req 5 for student in WindowsLDAP opt=27 prot=0
fnbamd_fsm.c[336] __compose_group_list_from_req-Group 'WindowsLDAP'
fnbamd_pop3.c[573] fnbamd_pop3_start-student
fnbamd_cfg.c[932] __fnbamd_cfg_get_ldap_list_by_server-Loading LDAP server
'WindowsLDAP'
fnbamd_ldap.c[992] resolve_ldap_FQDN-Resolved address 10.0.1.10, result 10.0.1.10
fnbamd_fsm.c[428] create_auth_session-Total 1 server(s) to try
fnbamd_ldap.c[437] start_search_dn-base: 'cn=user,dc=trainingAD,dc=training,dc=lab'
filter:cn=student
fnbamd_ldap.c[1730] fnbamd_ldap_get_result-Going to SEARCH state
fnbamd_fsm.c[2407] auth_ldap_result-Continue pending for req 5
fnbamd_ldap.c[480] get_all_dn-Found no DN
fnbamd_ldap.c[503] start_next_dn_bind-No more DN left
fnbamd_ldap.c[2028] fnbamd_ldap_get_result-Auth denied
fnbamd_auth.c[2188] fnbamd_auth_poll_ldap-Result for ldap svr 10.0.1.10 is denied
fnbamd_comm.c[169] fnbamd_comm_send_result-Sending result 1 for req 5
fnbamd_fsm.c[568] destroy_auth_session-delete session 5
authenticate 'student' against 'WindowsLDAP' failed!
```

Based on the output in the exhibit, what can cause this authentication problem?

- A. User student is not found in the LDAP server.
- B. User student is using a wrong password.
- C. The FortiGate has been configured with the wrong password for the LDAP administrator.
- D. The FortiGate has been configured with the wrong authentication schema.

**Answer:** A

#### NEW QUESTION 29

Refer to the exhibit, which contains the output of diagnose sys session list.

```
# diagnose sys session list
session info: proto=6 proto_state=01 duration=73 expire=3597 timeout=3600
flags=00000000 sockflag=00000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=may_dirty synced none app_ntf
statistic(bytes/packets/allow_err): org=822/11/1 reply=9037/15/1 tuples=2
origin=>sink: org pre=>post, reply pre=>post dev=4->2/2->4
gwy=100.64.1.254/10.0.1.10
hook-post dir=org act=snat 10.0.1.10:65464->54.192.15.182:80(100.64.1.1:65464)
hook-pre dir=reply act=dnat 54.192.15.182:80->100.64.1.1:65464(10.0.1.10:65464)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000098 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

If the HA ID for the primary unit is zero (0), which statement about the output is true?

- A. This session cannot be synced with the slave unit.
- B. The inspection of this session has been offloaded to the slave unit.
- C. The master unit is processing this traffic.
- D. This session is for HA heartbeat traffic.

**Answer: C**

### NEW QUESTION 33

Examine the output of the 'get router info ospf interface' command shown in the exhibit; then answer the question below.

```
# 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, sent 27, DD received 7 sent 9
  LS-Req received 2 sent 2, LS-Upd received 7 sent 5
  LS-Ack received 4 sent 3, Discarded 1
```

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

- A. The port4 interface is connected to the OSPF backbone area.
- B. The local FortiGate has been elected as the OSPF backup designated router.
- C. There are at least 5 OSPF routers connected to the port4 network.
- D. Two OSPF routers are down in the port4 network.

**Answer: AC**

#### Explanation:

on BROADCAST network there are 4 neighbors, among which 1\*DR +1\*BDR. So our FG has 4 neighbors, but create adjacency only with 2 (with DR and BDR). 2 neighbors DROther (not down).

### NEW QUESTION 36

Which of the following statements are true regarding the SIP session helper and the SIP application layer gateway (ALG)? (Choose three.)

- A. SIP session helper runs in the kernel; SIP ALG runs as a user space process.
- B. SIP ALG supports SIP HA failover; SIP helper does not.
- C. SIP ALG supports SIP over IPv6; SIP helper does not.
- D. SIP ALG can create expected sessions for media traffic; SIP helper does not.
- E. SIP helper supports SIP over TCP and UDP; SIP ALG supports only SIP over UDP.

**Answer: BCD**

### NEW QUESTION 41

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

- A. route-reflector enable
- B. route-reflector-server enable
- C. route-reflector-client enable
- D. route-reflector-peer enable



Answer: C

**Explanation:**

[https://docs.fortinet.com/document/fortigate/7.0.11/cli-reference/572620/config-router-bgp-set-route-reflector-client \[enable|disable\]](https://docs.fortinet.com/document/fortigate/7.0.11/cli-reference/572620/config-router-bgp-set-route-reflector-client-enable-disable)

**NEW QUESTION 44**

Refer to the exhibit, which contains the partial output of the get vpn ipsec tunnel details command.

```
Hub # get vpn ipsec tunnel details
gateway
  name: 'Hub2Spoke1'
  type: route-based
  local-gateway: 10.10.1.1:0 (static)
  remote-gateway: 10.10.2.2:0 (static)
  mode: ike-v1
  interface: 'wan2' (6)
  rx packets: 1025 bytes: 524402 errors: 0
  tx packets: 641 bytes: 93 errors: 0
  dpd: on-demand/negotiated idle: 20000ms retry: 3 count: 0
  selectors
    name: 'Hub2Spoke1'
    auto-negotiate: disable
    mode: tunnel
    src: 0:192.168.1.0/0.0.0.0:0
    dst: 0:10.10.20.0/0.0.0.0:0
  SA
    lifetime/rekey: 43200/32137
    mtu: 1438
    tx-esp-seq: 2ce
    replay: enabled
  inbound
    spi: 01e54b14
    enc: aes-cb 914dc5d092667ed436ea7f6efb867976
    auth: sha1 a81b019d4cdfda32ce51e6b01d0b1ea42a74adce
  outbound
    spi: 3dd3545f
    enc: aes-cb 017b8ff6c4ba21eac99b22380b7de74d
    auth: sha1 edd8141f4956140eef703d9042621d3dbf5cd961
  NPU acceleration: encryption(outbound) decryption(inbound)
```

Based on the output, which two statements are correct? (Choose two.)

- A. The npu\_flag for this tunnel is 03.
- B. Different SPI values are a result of auto-negotiation being disabled for phase 2 selectors.
- C. Anti-replay is enabled.
- D. The npu\_flag for this tunnel is 02.

Answer: AC

**NEW QUESTION 47**

Refer to the exhibit, which shows the output of a BGP debug command.

```
FGT # get router info bgp summary
BGP router identifier 10.200.1.1, local AS number 655
BGP table version is 2
1 BGP AS-PATH entries
0 BGP community entries

Neighbor      V      AS      MsgRcvd MsgSent   TblVer
10.200.3.1    4 65501      92      1756      0

Total number of neighbors 1
```

Which statement explains why the state of the 10.200.3.1 peer is Connect?

- A. The local router has a different AS number than the remote peer.
- B. The local router is receiving BGP keepalives from the remote peer, but the local peer has not received the openConfirm yet.
- C. The local router initiated the BGP session to 10.200.3.1 but did not receive a response.
- D. The router 10.200.3.1 has authentication configured for BGP and the local router does not.

Answer: C



#### NEW QUESTION 51

An administrator has created a VPN community within VPN Manager on FortiManager. They also added gateways to the VPN community and are now trying to create firewall policies to permit traffic over the tunnel; however, the VPN interfaces are not listed as available options. What step must the administrator take to resolve this issue?

- A. Install the VPN community and gateway configuration to the FortiGate devices, in order for the interfaces to be displayed within Policy & Objects on FortiManager
- B. Set up all of the phase 1 settings in the VPN community that they neglected to set up initiall
- C. The interfaces will be automatically generated after the administrator configures all of the required settings.
- D. Refresh the device status from the Device Manager so that FortiGate will populate the IPsec interfaces.
- E. Create interface mappings for the IPsec VPN interfaces, before they can be used in a policy.

**Answer:** A

#### Explanation:

\* - Create a VPN Community 2- Install VPN Configuration 3- Add IPsec Firewall Policies 4- Install the Policies

#### NEW QUESTION 52

What are two functions of automation stitches? (Choose two.)

- A. Automation stitches can be configured on any FortiGate device in a Security Fabric environment.
- B. An automation stitch configured to execute actions sequentially can take parameters from previous actions as input for the current action.
- C. Automation stitches can be created to run diagnostic commands and attach the results to an email message when CPU or memory usage exceeds specified thresholds.
- D. An automation stitch configured to execute actions in parallel can be set to insert a specific delay between actions.

**Answer:** BC

#### Explanation:

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 23, 26

#### NEW QUESTION 53

Examine the following traffic log; then answer the question below.

```
date=20xx-02-01 time=19:52:01 devname=master device_id="xxxxxxx" log_id=0100020007 type=event subtype=system pri critical vd=root service=kemel status=failure msg="NAT port is exhausted."
```

What does the log mean?

- A. There is not enough available memory in the system to create a new entry in the NAT port table.
- B. The limit for the maximum number of simultaneous sessions sharing the same NAT port has been reached.
- C. FortiGate does not have any available NAT port for a new connection.
- D. The limit for the maximum number of entries in the NAT port table has been reached.

**Answer:** B

#### NEW QUESTION 58

Which statement is true regarding File description (FD) conserve mode?

- A. IPS inspection is affected when FortiGate enters FD conserve mode.
- B. A FortiGate enters FD conserve mode when the amount of available description is less than 5%.
- C. FD conserve mode affects all daemons running on the device.
- D. Restarting the WAD process is required to leave FD conserve mode.

**Answer:** B

#### NEW QUESTION 62

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

```
# diagnose hardware sysinfo conserve
memory conserve mode:          on
total RAM:                     3040 MB
memory used:                   2706 MB 89% of total RAM
Memory freeable:              334 MB 11% of total RAM
memory used + freeable threshold extreme: 2887 MB 95% of total RAM
memory used threshold red:     2675 MB 88% of total RAM
memory used threshold green:   2492 MB 82% of total RAM
```

Which one of the following statements about this FortiGate is correct?

- A. It is currently in system conserve mode because of high CPU usage.
- B. It is currently in extreme conserve mode because of high memory usage.
- C. It is currently in proxy conserve mode because of high memory usage.
- D. It is currently in memory conserve mode because of high memory usage.

**Answer:** D

#### NEW QUESTION 67

Refer to the exhibit, which shows a FortiGate configuration.

```
config system fortiguard
  set protocol udp
  set port 8888
  set load-balance-servers 1
  set auto-join-forticloud enable
  set update-server-location any
  set sandbox-region ""
  set fortiguard-anycast disable
  set antispam-force-off disable
  set antispam-cache enable
  set antispam-cache-ttl 1800
  set antispam-cache-mpercent 2
  set antispam-timeout 7
  set webfilter-force-off enable
  set webfilter-cache enable
  set webfilter-cache-ttl 3600
  set webfilter-timeout 15
  set sdns-server-ip "208.91.112.220"
  set sdns-server-port 53
  unset sdns-options
  set source-ip 0.0.0.0
  set source-ip6 ::
  set proxy-server-ip 0.0.0.0
  set proxy-server-port 0
  set proxy-username ""
  set ddns-server-ip 0.0.0.0
  set ddns-server-port 443
end
```

An administrator is troubleshooting a web filter issue on FortiGate. The administrator has configured a web filter profile and applied it to a policy; however, the web filter is not inspecting any traffic that is passing through the policy. What must the administrator change to fix the issue?

- A. Increase webfilter-timeout.
- B. Change protocol to TCP.
- C. Enable fortiguard-anycast.
- D. Disable webfilter-force-off.

**Answer:** D

#### NEW QUESTION 70

View the following FortiGate configuration.

```
config system global
  set snat-route-change disable
end
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 traffic to the Internet currently egresses from port1. The exhibit shows partial session information for Internet traffic from a user on the internal network:



```
# 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=57555/7/1 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
```

If the priority on route ID 1 were changed from 5 to 20, what would happen to traffic matching that user's session?

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

**Answer:** A

**Explanation:**

<http://kb.fortinet.com/kb/documentLink.do?externalID=FD40943>

### NEW QUESTION 73

Refer to the exhibit, which shows the output of a web filtering diagnose command.

# diagnose webfilter fortiguard statistics list	# diagnose webfilter fortiguard statistics list
Rating Statistics:	Cache Statistics:
=====	=====
DNS failures : 273	Maximum memory : 0
DNS lookups : 280	Memory usage : 0
Data send failures : 0	Nodes : 0
Data read failures : 0	Leaves : 0
Wrong package type : 0	Prefix nodes : 0
Hash table miss : 0	Exact nodes : 0
Unknown server : 0	Requests : 0
Incorrect CRC : 0	Misses : 0
Proxy request failures : 0	Hits : 0
Request timeout : 1	Prefix hits : 0
Total requests : 2409	Exact hits : 0
Requests to FortiGuard servers : 1182	No cache directives : 0
Server errored responses : 0	Add after prefix : 0
Relayed rating : 0	Invalid DB put : 0
Invalid profile : 0	DB updates : 0
Allowed : 1021	Percent full : 0%
Blocked : 3909	Branches : 0%
Logged : 3927	Leaves : 0%
Blocked Errors : 565	Prefix nodes : 0%
Allowed Errors : 0	Exact nodes : 0%
Monitors : 0	Miss rate : 0%
Authenticates : 0	Hit rate : 0%
Warnings : 18	Prefix hits : 0%
Ovrd request timeout : 0	Exact hits : 0%
Ovrd send failures : 0	
Ovrd read failures : 0	
Ovrd errored responses : 0	
...	

Which configuration change would result in non-zero results in the cache statistics section?

- A. set server-type rating under config system central-management
- B. set webfilter-cache enable under config system fortiguard
- C. set webfilter-force-off disable under config system fortiguard
- D. set ngfw-mode policy-based under config system settings

**Answer:** B

**Explanation:**

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 362

### NEW QUESTION 75

View the exhibit, which contains the partial output of an IKE real-time debug, and then answer the question below.



```
ike 0:c49e59846861b0f6/0000000000000000:278: responder: main mode get 1st message...
ike 0:c49e59846861b0f6/0000000000000000:278: incoming proposal:
ike 0:c49e59846861b0f6/0000000000000000:278: proposal id = 0:
ike 0:c49e59846861b0f6/0000000000000000:278:   protocol id = ISAKMP:
ike 0:c49e59846861b0f6/0000000000000000:278:   trans_id = KEY_IKE.
ike 0:c49e59846861b0f6/0000000000000000:278:   encapsulation = IKE/none
ike 0:c49e59846861b0f6/0000000000000000:278:   type=OAKLEY_ENCRYPT_ALG, val=3DES_CBC.
ike 0:c49e59846861b0f6/0000000000000000:278:   type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:c49e59846861b0f6/0000000000000000:278:   type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:c49e59846861b0f6/0000000000000000:278:   type=OAKLEY_GROUP, val=MODP2048.
ike 0:c49e59846861b0f6/0000000000000000:278: ISAKMP SA lifetime=86400
...
ike 0:c49e59846861b0f6/0000000000000000:278: my proposal, gw VPN:
ike 0:c49e59846861b0f6/0000000000000000:278: proposal id = 1:
ike 0:c49e59846861b0f6/0000000000000000:278:   protocol id = ISAKMP:
ike 0:c49e59846861b0f6/0000000000000000:278:   trans_id = KEY_IKE.
ike 0:c49e59846861b0f6/0000000000000000:278:   encapsulation = IKE/none
ike 0:c49e59846861b0f6/0000000000000000:278:   type=OAKLEY_ENCRYPT_ALG, val=AES_CBC,
key-len=256
ike 0:c49e59846861b0f6/0000000000000000:278:   type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:c49e59846861b0f6/0000000000000000:278:   type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:c49e59846861b0f6/0000000000000000:278:   type=OAKLEY_GROUP, val=MODP2048.
ike 0:c49e59846861b0f6/0000000000000000:278: ISAKMP SA lifetime=86400
...
ike 0:c49e59846861b0f6/0000000000000000:278: negotiation failure
ike Negotiate ISAKMP SA Error: ike 0:c49e59846861b0f6/0000000000000000:278:
proposal chosen
...
```

Why didn't the tunnel come up?

- A. The pre-shared keys do not match.
- B. The remote gateway's phase 2 configuration does not match the local gateway's phase 2 configuration.
- C. The remote gateway's phase 1 configuration does not match the local gateway's phase 1 configuration.
- D. The remote gateway is using aggressive mode and the local gateway is configured to use man mode.

**Answer:** C

#### NEW QUESTION 76

Which the following events can trigger the election of a new primary unit in a HA cluster? (Choose two.)

- A. Primary unit stops sending HA heartbeat keepalives.
- B. The FortiGuard license for the primary unit is updated.
- C. One of the monitored interfaces in the primary unit is disconnected.
- D. A secondary unit is removed from the HA cluster.

**Answer:** AC

#### NEW QUESTION 78

Which two tasks are automated using the Install Wizard on FortiManager? (Choose two.)

- A. Preview pending configuration changes for managed devices.
- B. Add devices to FortiManager.
- C. Import policy packages from managed devices.
- D. Install configuration changes to managed devices.
- E. Import interface mappings from managed devices.

**Answer:** AD

#### Explanation:

[https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager\\_Admin\\_Guide/1000\\_Device%20Manager/1200\\_ins](https://help.fortinet.com/fmgr/50hlp/56/5-6-2/FortiManager_Admin_Guide/1000_Device%20Manager/1200_ins)

There are 4 main wizards: Add Device: is used to add devices to central management and import their configurations.

Install: is used to install configuration changes from Device Manager or Policies & Objects to the managed devices. It allows you to preview the changes and, if the administrator doesn't agree with the changes, cancel and modify them.

Import policy: is used to import interface mapping, policy database, and objects associated with the managed devices into a policy package under the Policy & Object tab. It runs with the Add Device wizard by default and may be run at any time from the managed device list.

Re-install policy: is used to perform a quick install of the policy package. It doesn't give the ability to preview the changes that will be installed to the managed device.

#### NEW QUESTION 83

Examine the output from the 'diagnose debug authd fssso list' command; then answer the question below.

# diagnose debug authd fssso list —FSSO logons-IP: 192.168.3.1 User: STUDENT Groups: TRAININGAD/USERS Workstation: INTERNAL2. TRAINING. LAB The IP address 192.168.3.1 is

NOT the one used by the workstation INTERNAL2. TRAINING. LAB.

What should the administrator check?

- A. The IP address recorded in the logon event for the user STUDENT.

- B. The DNS name resolution for the workstation name INTERNAL2. TRAININ
- C. LAB.
- D. The source IP address of the traffic arriving to the FortiGate from the workstation INTERNAL2.TRAININ
- E. LAB.
- F. The reserve DNS lookup forthe IP address 192.168.3.1.

**Answer:** C

#### NEW QUESTION 88

Refer to the exhibit, which contains the partial output of a diagnose command.

```
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=statistic/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refernt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000ms 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: 0:10.1.2.0/255.255.255.0:0
    dat: 0:10.1.1.0/255.255.255.0:0
    SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/OB replaywin=204B seqno=1
esn=replaywin_lastseq=00000000
    life: type=01 bytes=0/0 timeout=43177/43200
    dec: spi=ccclf66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
        ah=shal key=20 c68091d68753578785de6a7a6b276b506e527
```

Based on the output, which two statements are correct? (Choose two.)

- A. Anti-replay is enabled.
- B. DPD is disabled.
- C. Remote gateway IP is 10.200.4.1.
- D. Quick mode selectors are disabled.

**Answer:** AC

#### NEW QUESTION 89

Which action will FortiGate take when using the default settings for SSL certificate inspection, where the server name indication (SNI) does not match either the common name (CN) or any of the subject alternative names (SAN) in the server certificate?

- A. FortiGate uses the CN information from the Subject field in the server certificate.
- B. FortiGate uses the first entry listed in the SAN field in the server certificate.
- C. FortiGate uses the SNI from the user's web browser.
- D. FortiGate closes the connection because this represents an invalid SSL/TLS configuration.

**Answer:** A

#### Explanation:

#Config firewall ssl-ssh-profile

edit <profile\_name> config https

set sni-server-cert-check [enable\* | strict | disable]

Enable: If the SNI does NOT match the CN or SAN fields in the returned server's certificate, FG uses the CN field instead of the SNI to obtain the FQDN.

Strict: If the SNI does NOT match the CN or SAN fields in the returned server's certificate, FG closes the connection.

Disable: FG does not check the SNI.

#### NEW QUESTION 94

A corporate network allows Internet Access to FSSO users only. The FSSO user student does not have Internet access after successfully logged into the Windows AD network. The output of the 'diagnose debug authd fssolist' command does not show student as an active FSSO user. Other FSSO users can access the Internet without problems. What should the administrator check? (Choose two.)

- A. The user student must not be listed in the CA's ignore user list.
- B. The user student must belong to one or more of the monitored user groups.
- C. The student workstation's IP subnet must be listed in the CA's trusted list.
- D. At least one of the student's user groups must be allowed by a FortiGate firewall policy.

**Answer:** AD

#### Explanation:

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD38828>

#### NEW QUESTION 98

Which two configuration commands change the default behavior for content-inspected traffic while FortiGate is in conserve mode? (Choose two.)

- A. set av-failopen off



- B. set av-failopen pass
- C. set fail-open enable
- D. set ips fail-open disable

**Answer:** AC

**Explanation:**

<https://docs.fortinet.com/document/fortigate/7.2.4/administration-guide/194558/conservemode>

**NEW QUESTION 100**

Which statement about memory conserve mode is true?

- A. A FortiGate exits conserve mode when the configured memory use threshold reaches yellow.
- B. A FortiGate starts dropping all the new and old sessions when the configured memory use threshold reaches extreme.
- C. A FortiGate starts dropping new sessions when the configured memory use threshold reaches red
- D. A FortiGate enters conserve mode when the configured memory use threshold reaches red

**Answer:** D

**NEW QUESTION 105**

Refer to the exhibit, which shows the output of a diagnose command.

```
# diagnose sys session list expectation

session info: proto=6 proto_state=00 duration=3 expire=26 timeout=3600 flags=00000000
sockflag=00000000 sockport=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
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 can you conclude from the output shown in the exhibit? (Choose two.)

- A. This is a pinhole session created to allow traffic for a protocol that requires additional sessions to operate through FortiGate.
- B. This is an expected session created by the IPS engine.
- C. Traffic in the original direction (coming from the IP address 10.171.121.38) will be routed to the next-hop IP address 10.200.1.1.
- D. Traffic in the original direction (coming from the IP address 10.171.121.38) will be routed to thenext-hop IP address 10.0.1.10.

**Answer:** AD

**Explanation:**

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 110, 111, 115

**NEW QUESTION 107**

Refer to the exhibits.

```
config vpn ipsec phase1-interface
edit "user-1"
    set type dynamic
    set interface "port1"
    set mode main
    set xauthtype auto
    set authusrgrp "Users-1"
    set peertype any
    set dhgrp 14 15 19
    set proposal aes128-sha256 aes256-sha384
    set psksecret <encrypted_password>
next
```

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.

**Answer:** CD

**Explanation:**

To set peer-id, the VPN must be set in aggressive mode - <https://community.fortinet.com/t5/FortiGate/Technical-Tip-How-to-use-Peer-IDs-to-select-an-IPSec-dialup/ta-p>

**NEW QUESTION 110**

An administrator has configured two FortiGate devices for an HA cluster. While testing the HA failover, the administrator noticed that some of the switches in the network continue to send traffic to the former primary unit. The administrator decides to enable the setting link-failed-signal to fix the problem. Which statement is correct regarding this command?

- A. Forces the former primary device to shut down all its non-heartbeat interfaces for one second while the failover occurs.
- B. Sends an ARP packet to all connected devices, indicating that the HA virtual MAC address is reachable through a new master after a failover.
- C. Sends a link failed signal to all connected devices.
- D. Disables all the non-heartbeat interfaces in all the HA members for two seconds after a failover.

**Answer:** A

**NEW QUESTION 114**

View these partial outputs from two routing debug commands:

```
# get router info kernel
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.1.254
dev=2(port1)
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.2.254
dev=3(port2)
tab=254 vf=0 scope=253 type=1 proto=2 prio=0 0.0.0.0/0.0.0.0/0->10.0.1.0/24 pref=10.0.1.254 gwy=0.0.0.0
dev=4(port3)
# get router info routing-table all
S*    0.0.0.0/0 [10/0] via 10.200.1.254, port1
      [10/0] via 10.200.2.254, port2, [10/0]
C     10.0.1.0/24 is directly connected, port3
C     10.200.1.0/24 is directly connected, port1
C     10.200.2.0/24 is directly connected, port2
```

Which outbound interface will FortiGate use to route web traffic from internal users to the Internet?

- A. Both port1 and port2
- B. port3
- C. port1
- D. port2

**Answer:** C

**NEW QUESTION 116**

Refer to the exhibit, which shows the output of a debug command.

```
FGT # get router info ospf neighbor

OSPF process 0:
Neighbor ID    Pri   State           Dead Time   Address        Interface
0.0.0.69       1     Full/DR         00:00:32    10.126.0.69    wan1
0.0.0.117      1     Full/DROther    00:00:34    10.126.0.117   wan2
0.0.0.2        1     Full/ -         00:00:38    172.16.1.2     ToRemote
```

What can be concluded from the debug command output?

- A. The OSPF router with the ID 0.0.0.69 has its OSPF priority set to 0.
- B. The local FortiGate has a different MTU value from the OSPF router with ID 0.0.0.2, based on the state information.
- C. There are more than two OSPF routers on the wan2 network.
- D. The interface ToRemote is a broadcast OSPF network.

**Answer:** C

**Explanation:**

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 296

**NEW QUESTION 117**

An administrator is running the following sniffer in a FortiGate: diagnose sniffer packet any "host 10.0.2.10" 2  
What information is included in the output of the sniffer? (Choose two.)

- A. Ethernet headers.
- B. IP payload.
- C. IP headers.
- D. Port names.

**Answer:** BC

**Explanation:**

<https://kb.fortinet.com/kb/documentLink.do?externalID=11186>

**NEW QUESTION 120**

Which two statements about application-layer test commands are true? (Choose two.)

- A. Some of them display real-time application debugs.
- B. Some of them can be used to restart an application.
- C. Some of them display statistics and configuration information about a feature or process.
- D. Some of them only display output, after you run the diagnose debug console enable command.

**Answer:** BC

**NEW QUESTION 124**

Which two conditions would prevent a static route from being added to the routing table? (Choose two.)

- A. There is another other route to the same destination, with a lower distance.
- B. The route has a lower priority value than another route to the same destination.
- C. The next-hop IP address is unreachable.
- D. The interface specified in the route configuration is down

**Answer:** AD

**Explanation:**

The routing table contains only the static route with the lowest distance <https://community.fortinet.com/t5/FortiGate/Technical-Note-Routing-behavior-depending-on-distance-and/ta-p/>

**NEW QUESTION 126**

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.

**Answer:** BDE

**NEW QUESTION 128**

Refer to the exhibit, which shows the output of diagnose sys session stat.

```
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 ses_walkers=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
fqdn6_count=00000000
global: ses_limit=0 ses6_limit=0 rt_limit=0 rt6_limit=0
```

Which statement about the output shown in the exhibit is correct?

- A. There are two sessions that have not been removed in case of any out-of-order packets that arrive.
- B. There are 166 TCP sessions waiting to complete the three-way handshake.
- C. 162 sessions have been deleted because of memory page exhaustion.
- D. All the sessions in the session table are TCP sessions.

Answer: A

#### NEW QUESTION 130

Refer to the exhibit, which contains the output of a debug command.

```
# diagnose hardware sysinfo conserve
memory conserve mode:          on
total RAM:                     3040 MB
memory used:                   2706 MB 89% of total RAM
Memory freeable:              334 MB 11% of total RAM
memory used + freeable threshold extreme: 2887 MB 95% of total RAM
memory used threshold red:     2675 MB 88% of total RAM
memory used threshold green:   2492 MB 82% of total RAM
```

If the default settings are in place, what can be concluded about the conserve mode shown in the exhibit?

- A. FortiGate is currently blocking all new sessions regardless of the content inspection requirements or configuration settings due to high memory use.
- B. FortiGate is currently allowing new sessions that require flow-based or proxy-based content inspection but is not performing inspection on those sessions.
- C. FortiGate is currently blocking new sessions that require flow-based or proxy-based content inspection.
- D. FortiGate is currently allowing new sessions that require flow-based content inspection and blocking sessions that require proxy-based content inspection.

Answer: C

#### NEW QUESTION 131

View the exhibit, which contains the output of get sys ha status, and then answer the question below.

```
NGFW # get sys ha status
HA Health Status: ok
Model: FortiGate0VM64
Mode: HA A-P
Group: 0
Debug: 0
Cluster Uptime: 0 days 01:07:35
Master selected using:
<2017/04/24 09:43:44> FGVM010000077649 is selected as the master because it has the largest value of override pr
<2017/04/24 08:50:53> FGVM010000077 is selected as the master because it's the only member in the cluster.
ses_pickup: disable
override: enable
Configuration Status:
FGVM010000077649(updated 1 seconds ago): in-sync
FGVM010000077650(updated 0 seconds ago): out-of-sync
System Usage stats:
FGVM010000077649(updated 1 seconds ago):
sessions=30, average-cpu-user/nice/system/idle=0%/0%/0%/100%, memory-60%
FGVM010000077650(updated 0 seconds ago):
sessions=2, average-cpu-user/nice/system/idle=0%/0%/0%/100%, memory-61%
HBDEV stats:
FGVM010000077649(updated 1 seconds ago):
port7: physical/10000full, up, rx-bytes/packets/dropped/errors=7358367/17029/25/0, tx=7721830/17182/0/0
FGVM010000077650(updated 0 seconds ago):
port7: physical/10000full, up, rx-bytes/packets/dropped/errors=7793722/17190/0/0, tx=8940374/20806/0/0
Master: NGFW, FGVM010000077649
Slave : NGFW-2, FGVM010000077650
number of vcluster: 1
vcluster 1: work 169.254.0.2
Master:0 FGVM0100000077649
Slave :1 FGVM0100000077650
```

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

- A. The slave configuration is not synchronized with the master.
- B. The HA management IP is 169.254.0.2.
- C. Master is selected because it is the only device in the cluster.
- D. port 7 is used the HA heartbeat on all devices in the cluster.

Answer: AD

#### NEW QUESTION 135

Refer to the exhibit, which shows the output of get system ha status. NGFW-1 and NGFW-2 have been up for a week.



```
NGFW-1 # get sys ha status
HA Health Status: OK
Model: FortiGate-VM64
Mode: HA A-P
Group: 0
Debug: 0
Cluster Uptime: 0 days 0:1:25
Cluster state change time: 2021-10-18 12:07:47
Primary selected using:
<2021/10/18 12:07:47> FGVM010000077649 is selected as the primary because its override priority is larger than peer member
FGVM010000077650.
ses_pickup: disable
override: disable
Configuration Status:
FGVM010000077649(updated 4 seconds ago): in-sync
FGVM010000077650(updated 1 seconds ago): out-of-sync
System Usage stats:
FGVM010000077649(updated 4 seconds ago):
sessions=166, average-cpu-user/nice/system/idle=1%/0%/0%/99%, memory=45%
FGVM010000077650(updated 1 seconds ago):
sessions=3, average-cpu-user/nice/system/idle=0%/0%/0%/100%, memory=44%
HBDEV stats:
FGVM010000077649(updated 4 seconds ago):
port7: physical/1000auto, up, rx-bytes/packets/dropped/errors=167663/567/0/0, tx=262623/656/0/0
FGVM010000077650(updated 1 seconds ago):
port7: physical/1000auto, up, rx-bytes/packets/dropped/errors=271373/680/0/0, tx=176013/592/0/0
Primary : NGFW-1 , FGVM010000077649, HA cluster index = 1
Secondary : NGFW-2 , FGVM010000077650, HA cluster index = 0
number of vcluster: 1
vcluster 1: work 169.254.0.2
Primary: FGVM010000077649, HA operating index = 0
Secondary: FGVM010000077650, HA operating index = 1
```

Which two statements about the output are true? (Choose two.)

- A. If FGVM...649 is rebooted, FGVM...650 will become the primary and retain that role, even after FGVM...649 rejoins the cluster.
- B. If no action is taken, the primary FortiGate will leave the cluster due to the current sync status.
- C. If port7 becomes disconnected on the secondary, both FortiGate devices will elect itself the primary.
- D. If a configuration change is made to the primary FortiGate at this time, the secondary will initiate a synchronization reset.

**Answer:** AC

#### Explanation:

\* A. If FGVM...649 is rebooted, FGVM...650 will become the primary that is normal since it will be the only active firewall and retain that role since override is disabled. Even after FGVM...649 rejoins the cluster, 650 will not fail over as slave. C. If port7 (heartbeat port) becomes disconnected on the secondary, both FortiGate devices will elect itself the primary because when heartbeat communication fails, all cluster members think they are the primary unit (condition referred to as Split Brain) <https://docs.fortinet.com/document/fortigate/6.4.0/best-practices/493254/heartbeat-interfaces>

#### NEW QUESTION 138

Examine the following partial output from two system debug commands; then answer the question below.

```
# diagnose hardware sysinfo memory
MemTotal: 3092728 kB
MemFree: 1954204 kB
MemShared: 0 kB
Buffers: 284 kB
Cached: 143004 kB
SwapCached: 0 kB
Active: 34092 kB
Inactive: 109256 kB
HighTotal 1179648 kB
HighFree: 853516 kB
LowTotal: 1913080 kB
LowFree: 1100688 kB
SwapTotal: 0 kB
SwapFree: 0 kB
# diagnose hardware sysinfo shm
SHM counter: 285
SHM allocated: 6823936
SHM total: 623452160
conserve mode: 0
shm last entered: n/a
system last entered: n/a
SHM FS total: 639725568
SHM FS free: 632614912

SHM FS alloc: 7110656
```

Which of the following statements are true regarding the above outputs? (Choose two.)

- A. The unit is running a 32-bit FortiOS
- B. The unit is in kernel conserve mode

- C. The Cached value is always the Active value plus the Inactive value
- D. Kernel indirectly accesses the low memory (LowTotal) through memory paging

**Answer:** AC

#### NEW QUESTION 140

A FortiGate is configured as an explicit web proxy. Clients using this web proxy are reposting DNS errors when accessing any website. The administrator executes the following debug commands and observes that the n-d ns-timeout counter is increasing:

```
#diagnose test application wad 2200
#diagnose test application wad 104
DNS Stats:
n_dns_reqs=878  n_dns_fails= 2  n_dns_timeout=875
n_dns_success=0

n_snd_retries=0  n_snd_fails=0 n_snd_success=0 n_dns_overflow=0
n_build_fails=0
```

What should the administrator check to fix the problem?

- A. The connectivity between the FortiGate unit and the DNS server.
- B. The connectivity between the client workstations and the DNS server.
- C. That DNS traffic from client workstations is allowed by the explicit web proxy policies.
- D. That DNS service is enabled in the explicit web proxy interface.

**Answer:** A

#### NEW QUESTION 145

View the exhibit, which contains the output of a real-time debug, Which statement about this output is true?

```
FGT # diagnose debug application urlfilter -1
FGT # diagnose debug enable

msg="received a request /tmp/.wad512_0_0.url.socket, addr_len=30:
d=training.fortinet.com:443, id=687, cat=255, vfname='root', vfid=0,
profile='default', type=0, client=10.1.10.1, url_source=1, url="/"
action=9(ftgd-allow) wf-act=5(ALLOW) user="N/A" src=10.1.10.1 sport=58334
dst=13.226.142.41 dport=443 service="https" cat=52 url_cat=52 ip_cat=0
hostname="training.fortinet.com" url="/"
```

Which of the following statements is true regarding this output?

- A. The requested URL belongs to category ID 255.
- B. The server hostname is training.fortinet.com.
- C. FortiGate found the requested URL in its local cache.
- D. This web request was inspected using the ftgd-allow web filter profile.

**Answer:** C

#### Explanation:

Example log for no local cache case: #id=93000 msg="pid=57 urlfilter\_main-723 in main.c received pkt:count=91 "IPS and WAD will only send request to urlfilter daemon when cache is missed. " So the WAD process by itself found the URL rating in the local cache and didn't ask for help from the URL process as in the example.

#### NEW QUESTION 148

.....



## Relate Links

**100% Pass Your NSE7\_EFW-7.0 Exam with ExamBible Prep Materials**

[https://www.exambible.com/NSE7\\_EFW-7.0-exam/](https://www.exambible.com/NSE7_EFW-7.0-exam/)

## Contact us

We are proud of our high-quality customer service, which serves you around the clock 24/7.

Viste - <https://www.exambible.com/>