

# Fortinet

## Exam Questions NSE7\_EFW-7.0

Fortinet NSE 7 - Enterprise Firewall 7.0



### 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

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

```
# diagnose ip router bgp all enable
# diagnose ip router bgp level info
# diagnose debug enable
"BGP: 10.200.3.1-Outgoing [DECODE] KAlive: Received!"
"BGP: 10.200.3.1-Outgoing [FSM] State: OpenConfirm Event: 26"
"BGP: 10.200.3.1-Outgoing [DECODE] Msg-Hdr: type 2, length 56"
"BGP: 10.200.3.1-Outgoing [DECODE] Update: Starting UPDATE decoding... Byte
(37), msg_size (37)"
"BGP: 10.200.3.1-Outgoing [DECODE] Update: NLRI Len(13)"
"BGP: 10.200.3.1-Outgoing [FSM] State: Established Event: 27"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 0.0.0.0/0"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 10.200.4.0/24"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 10.200.3.0/24"
"BGP: 10.200.3.1-Outgoing [RIB] Update: Received Prefix 10.0.2.0/24"
"BGP: 10.200.3.1-Outgoing [FSM] State: Established Event: 34"
"BGP: 10.200.3.1-Outgoing [ENCODE] Msg-Hdr: Type 2"
"BGP: 10.200.3.1-Outgoing [ENCODE] Attr IP-Unicast: Tot-attr-len 20"
"BGP: 10.200.3.1-Outgoing [ENCODE] Update: Msg #5 Size 55"
"BGP: 10.200.3.1-Outgoing [FSM] State: Established Event: 34"
```

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.

Answer: AB

### NEW QUESTION 3

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 4**

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

An administrator has configured the TCL script on FortiManager, but the TCL script failed to apply any changes to the managed device after being run.

Type	TCL Script
Run script on	Remote FortiGate ...
Script details	<pre>#! proc do_cmd {cmd} { puts [exec "\$cmd\n" "# " 10] } run_cmd "config system interface " run_cmd "edit port1" run_cmd "set ip 10.0.1.10 255.255.255.0" run_cmd "next" run_cmd "end"</pre>

Why did the TCL script fail to make any changes to the managed device?

- A. The TCL command run\_cmd has not been created.
- B. The TCL script must start with tinclude <>.
- C. Incomplete commands are ignored in TCL scripts.
- D. Changes to an interface configuration can be made only by a CLI script.

**Answer:** A

**Explanation:**

<https://docs.fortinet.com/document/fortimanager/7.2.2/administration-guide/914165/tcl-scripts>

**NEW QUESTION 5**

Four FortiGate devices configured for OSPF connected to the same broadcast domain. The first unit is elected as the designated router The second unit is elected as the backup designated router Under normal operation, how many OSPF full adjacencies are formed to each of the other two units?

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B

### NEW QUESTION 6

How does FortiManager handle FortiGuard requests from FortiGate devices, when it is configured as a local FDS?

- A. FortiManager can download and maintain local copies of FortiGuard databases.
- B. FortiManager supports only FortiGuard push to managed devices.
- C. FortiManager will respond to update requests only if they originate from a managed device.
- D. FortiManager does not support rating requests.

Answer: A

### NEW QUESTION 7

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
BAF47D0988E9237F2F405EF3952F6FDA011004000000000000001AE0400003C0000000100000001000000300101000
ike 0: RemoteSite:4: initiator: aggressive mode get 1st response
ike 0: RemoteSite:4: VID RFC 3947 4A131C81070358455C5728F20E95452F
ike 0: RemoteSite:4: VID DPD APCAD71368A1P1c96B8696FC77570100
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
BAF47D0988E9237F2F405EF3952F6FDA08100401000000000000080140000181F2E48BFD8E9D603F
ike 0: RemoteSite:4: out
BAF47D0988E9237F2F405EF3952F6FDA0810040100000000000008c2E3FC9BA061816A396F009A12
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 8

An administrator wants to capture encrypted phase 2 traffic between two FortiGate devices using the built-in sniffer. If the administrator knows that there is no NAT device located between both FortiGate devices, which command should the administrator run?

- A. diagnose sniffer packet any 'ah'
- B. diagnose sniffer packet any 'ip proto 50'
- C. diagnose sniffer packet any 'udp port 4500'
- D. diagnose sniffer packet any 'udp port 500'

Answer: B

#### Explanation:

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p. 443 Phase 2 : ESP => IP protocol 50  
 This command will capture any packets that use the IP protocol number 50, which is ESP (Encapsulating Security Payload). ESP is used to encrypt and authenticate the phase 2 traffic between two FortiGate device1s.

### NEW QUESTION 9

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

```
ike 0:H2S_0_1:1249: notify msg received: SHORTCUT-QUERY
ike 0:H2S_0_1: recv shortcut-query 12594932268010586978 4384dd592d62cd52/0000000000000000 100.64.3.1
10.1.1.254->10.1.2.254 psk 64 ppk 0 ttl 32 nat 0 ver 1 mode 0
ike 0:H2S_0_0: iif 13 10.1.1.254->10.1.2.254 route lookup oif 13
ike 0:H2S_0_0: forward shortcut-query 12594932268010586978 4384dd592d62cd52/0000000000000000
100.64.3.1 10.1.1.254->10.1.2.254 psk 64 ppk 0 ttl 31 ver 1 mode 0, ext-ma
ike 0:H2S_0_0:1248: sent IKE msg (SHORTCUT-QUERY): 100.64.1.1:500->100.64.5.1:500, len=236,
id=e2beec89f13c7074/06a73dfb3a5d3b54:340a645c
ike 0: comes 100.64.5.1:500->100.64.1.1:500, ifindex=3. . .
ike 0: IKEv1 exchange=Informational id=e2beec89f13c7074/06a73dfb3a5d3b5d:26254ae9 len=236
ike 0:H2S_0_0:1248: notify msg received: SHORTCUT-REPLY
ike 0:H2S_0_0: recv shortcut-reply 12594932268010586978 4384dd592d62cd52/89bf040f5f7408c0 100.64.5.1
to 10.1.1.254 psk 64 ppk 0 ver 1 mode 0 ext-mapping 100.64.3.1:500
ike 0:H2S_0_0: iif 13.10.1.2.254->10.1.1.254 route lookup oif 13
ike 0:H2S_0_1: forward shortcut-reply 12594932268010586978 4384dd592d62cd52/89bf040f5f7408c0
100.64.5.1 to 10.1.1.254 psk 64 ppk 0 ttl 31 ver 1 mode 0 ext-mapping 100.
```

Based on the debug output, which phase 1 setting is enabled in the configuration of this VPN?

- A. auto-discovery-shortcut
- B. auto-discovery-forwarder
- C. auto-discovery-sender
- D. auto-discovery-receiver

Answer: D

**NEW QUESTION 10**

View the exhibit, which contains a partial web filter profile configuration, and then answer the question below.

Name:

Comments:  22/255

FortiGuard category based filter

Show  Allow

- Bandwidth Consuming
- File Sharing and Storage

Status URL Filter

Block invalid URLs:

URL Filter:

URL	Type	Action	Status
*dropbox.com	Wildcard	<input type="checkbox"/> Block	Enable

Web content filter:

Pattern Type	Pattern	Language	Action	Status
Wildcard	*dropbox*	Western	<input checked="" type="checkbox"/> Exempt	Enable

Which action will FortiGate take if a user attempts to access www.dropbox.com, which is categorized as File Sharing and Storage?

- A. FortiGate will exempt the connection based on the Web Content Filter configuration.
- B. FortiGate will block the connection based on the URL Filter configuration.
- C. FortiGate will allow the connection based on the FortiGuard category based filter configuration.
- D. FortiGate will block the connection as an invalid URL.

Answer: B

**Explanation:**

fortigate does it in order Static URL -> FortiGuard -> Content -> Advanced (java, cookie removal..)so block it in first step

**NEW QUESTION 10**

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 13**

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 16**

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 18

Which statement about protocol options is true?

- A. Protocol options allows administrators a streamlined method to instruct FortiGate to block all sessions corresponding to disabled protocols.
- B. Protocol options allows administrators the ability to configure the Any setting for all enabled protocols which provides the most efficient use of system resources.
- C. Protocol options allow administrators to configure a maximum number of sessions for each configured protocol.
- D. Protocol options allows administrators to configure which Layer 4 port numbers map to upper-layer protocols, such as HTTP, SMTP, FTP, and so on.

Answer: D

#### NEW QUESTION 19

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 23

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

```
#dia hardware sysinfo shm
SHM counter:          150
SHM allocated:         0
SHM total:            625057792
conserve mode: on - mem
system last entered: Mon Apr 24 16:36:37 2017
sys fd last entered: n/a
SHM FS total:        641236992
SHM FS free:         641208320
SHM FS avail:        641208320
SHM FS alloc:         28672
```

What statement is correct about this FortiGate?

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

Answer: D

#### NEW QUESTION 24

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]

#### NEW QUESTION 27

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 29**

View the global IPS configuration, and then answer the question below.

```
config ips global
    set fail-open disable
    set intelligent-mode disable
    set engine-count 0
    set algorithm engine-pick
end
```

Which of the following statements is true regarding this configuration?

- A. IPS will scan every byte in every session.
- B. FortiGate will spawn IPS engine instances based on the system load.
- C. New packets will be passed through without inspection if the IPS socket buffer runs out of memory.
- D. IPS will use the faster matching algorithm which is only available for units with more than 4 GB memory.

**Answer:** A

**NEW QUESTION 34**

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

- A. Neighbor range
- B. Route reflector
- C. Next-hop-self
- D. Neighbor group

**Answer:** B

**Explanation:**

Route reflectors help to reduce the number of IBGP sessions inside an AS. A route reflector forwards the routers learned from one peer to the other peers. If you configure route reflectors, you don't need to create a full mesh IBGP network. All clients in a cluster only talk to route reflector to get sync routing updates. Route reflectors pass the routing updates to other route reflectors and border routers within the AS.

**NEW QUESTION 38**

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 initially
- 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 40**

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:**

**NEW QUESTION 42**

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 43**

Which statement about the designated router (DR) and backup designated router (BDR) in an OSPF multi-access network is true?

- A. Only the DR receives link state information from non-DR routers.
- B. Non-DR and non-BDR routers form full adjacencies to DR only.
- C. Non-DR and non-BDR routers send link state updates and acknowledgements to 224.0.0.6.
- D. FortiGate first checks the OSPF ID to elect a DR.

**Answer: C**

**Explanation:**

Some special IP multicast addresses are reserved for OSPF: 224.0.0.5: All OSPF routers must be able to transmit and listen to this address. 224.0.0.6: All DR and BDR routers must be able to transmit and listen to this address. <https://www.cisco.com/c/en/us/support/docs/ip/open-shortest-path-first-ospf/7039-1.html>

**NEW QUESTION 46**

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
orgin->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 51**

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

```
# diagnose webfilter fortiguard statistics list
Rating Statistics:
=====
DNS failures : 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 request 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
...

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 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 53**

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.

**Answer:** BC

**NEW QUESTION 58**

Refer to the exhibit, which shows a partial routing table.

```
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, what two changes would an administrator need to make if they wanted to send traffic from a client directly connected to port3, to a server directly connected to port4? (Choose two.)

- A. Configure route leaking between VRF 12 and VRF 21.
- B. Disable auto-asic-offload as this is not supported between VRF instances.
- C. Configure RIPv2 to exchange route information between the VRF instances.
- D. Configure route leaking between port3 and port4.
- E. Enable SNAT on the relevant firewall policies to prevent RPF check drops.

**Answer:** AE

**Explanation:**

Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 148, 159

**NEW QUESTION 63**

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 66**

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.

**Answer:** A

**Explanation:**

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA\\_failoverVMAC.htm](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-high-availability-52/HA_failoverVMAC.htm)

**NEW QUESTION 67**

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

```
Student# get router info bgp summary
BGP router identifier 10.200.1.1, local AS number 65500
BGP table version is 2
1 BGP AS-PATH entries
0 BGP community entries

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
10.200.3.1 4 65501 92 112 0 0 0 never Connect

Total number of neighbors 1
```

Which statement can explain why the state of the remote BGP peer 10.200.3.1 is Connect?

- A. The local peer is receiving the BGP keepalives from the remote peer but it has not received any BGP prefix yet.
- B. The TCP session for the BGP connection to 10.200.3.1 is down.
- C. The local peer has received the BGP prefixed from the remote peer.
- D. The local peer is receiving the BGP keepalives from the remote peer but it has not received the OpenConfirm yet.

**Answer:** B

**Explanation:**

<http://www.ciscopress.com/articles/article.asp?p=2756480&seqNum=4>

**NEW QUESTION 71**

Which statement about the designated router (DR) and backup designated router (BDR) in an OSPF multi-access network is true?

- A. FortiGate first checks the OSPF ID to elect a DR.
- B. Non-DR and non-BDR routers will form full adjacencies to DR and BDR only.
- C. BDR is responsible for forwarding link state information from one router to another.
- D. Only the DR receives link state information from non-DR routers.

**Answer:** B

**NEW QUESTION 74**

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

- A. Installing configuration changes to managed devices
- B. Importing interface mappings from managed devices
- C. Adding devices to FortiManager
- D. Previewing pending configuration changes for managed devices

**Answer:** AD

**NEW QUESTION 78**

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

```

FGT # diagnose debug rating
Locale      : english
Service     : Web-filter
Status      : Enable
License     : Contract
Service     : Antispam
Status      : Disable
Service     : Virus Outbreak Prevention
Status      : Disable
-- Server List (Mon Apr 19 10:41:32 20xx) --
IP          Weight  RTT    Flags  TZ    Packets  Curr Lost  Total Lost
64.26.151.37  10    45     -5     -5    262432   0          846
64.26.151.35  10    46     -5     -5    329072   0          6806
66.117.56.37  10    75     -5     -5    71638    0          275
65.210.95.240 20    71     -8     -8    36875    0          92
209.222.147.36 20    103    DI     -8    34784    0          1070
208.91.112.194 20    107    D      -8    35170    0          1533
96.45.33.65   60    144    0      0     33728    0          120
80.85.69.41   71    226    1      1     33797    0          192
62.209.40.74  150   97     9      9     33754    0          145
121.111.236.179 45    44     F      -5    26410    26226     26227

```

What can you conclude from the RTT value?

- A. Its value represents the time it takes to receive a response after a rating request is sent to a particular server.
- B. Its value is incremented with each packet lost.
- C. It determines which FortiGuard server is used for license validation.
- D. Its initial value is statically set to 10.

Answer: A

#### NEW QUESTION 83

View the exhibit, which contains the output of a debug command, and 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 of the following statements about the exhibit are true? (Choose two.)

- A. In the network on port4, two OSPF routers are down.
- B. Port4 is connected to the OSPF backbone area.
- C. The local FortiGate's OSPF router ID is 0.0.0.4
- D. The local FortiGate has been elected as the OSPF backup designated router.

Answer: BC

#### NEW QUESTION 84

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/conserve-mode>

#### NEW QUESTION 88

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.

Answer: AC

**NEW QUESTION 93**

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.

**Answer: D**

**NEW QUESTION 95**

Refer to exhibit, which contains 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 is receiving BGP keepalives from the remote peer, but the local peer has not received the OpenConfirm yet.
- B. The TCP session to 10.200.3.1 has not completed the three-way handshake.
- C. The local router is receiving the BGP keepalives from the peer, but it has not received a BGP prefix yet.
- D. The local router has received the BGP prefixes from the remote peer.

**Answer: B**

**Explanation:**

BGP neighbor states and how they change:  
 • Idle: Initial state  
 • Connect: Waiting for a successful three-way TCP connection  
 • Active: Unable to establish the TCP session  
 • OpenSent: Waiting for an OPEN message from the peer  
 • OpenConfirm: Waiting for the keepalive message from the peer  
 • Established: Peers have successfully exchanged OPEN and keepalive messages

**NEW QUESTION 97**

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.

**Answer: C**

**NEW QUESTION 98**

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 100**

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.

**Answer:** D

**Explanation:**

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

**NEW QUESTION 103**

How are bulk configuration changes made using FortiManager CLI scripts? (Choose two.)

- A. When run on the All FortiGate in ADOM, changes are automatically installed without the creation of a new revision history.
- B. When run on the Device Database, changes are applied directly to the managed FortiGate device.
- C. When run on the Remote FortiGate directly, administrators do not have the option to review the changes prior to installation.
- D. When run on the Policy Package, ADOM database, you must use the installation wizard to apply the changes to the managed FortiGate device

**Answer:** CD

**Explanation:**

CLI scripts can be run in three different ways: Device Database: By default, a script is executed on the device database. It is recommend you run the changes on the device database (default setting), as this allows you to check what configuration changes you will send to the managed device. Once scripts are run on the device database, you can install these changes to a managed device using the installation wizard. Policy Package, ADOM database: If a script contains changes related to ADOM level objects and policies, you can change the default selection to run on Policy Package, ADOM database and can then be installed using the installation wizard. Remote FortiGate directly (through CLI): A script can be executed directly on the device and you don't need to install these changes using the installation wizard. As the changes are directly installed on the managed device, no option is provided to verify and check the configuration changes through FortiManager prior to executing it.

**NEW QUESTION 105**

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 108**

What is the diagnose test application ipsmonitor 99 command used for?

- A. To enable IPS bypass mode
- B. To provide information regarding IPS sessions
- C. To disable the IPS engine
- D. To restart all IPS engines and monitors

**Answer:** D

**NEW QUESTION 112**

Refer to the exhibits, which show the configuration on FortiGate and partial internet session information from a user on the internal network.

```

Configuration Session
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

```

```

Configuration Session
FGT # diagnose sys session list
session info: proto=6 proto_state=01 duration=600 expire=3179 timeout=3600 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=log may_dirty npu f00
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
orgin->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)
src_mac=b4:f7:a1:e9:91:97
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00317c5b tos=ff/ff app_list=0 app=0 url_cat=0
rpd_b_link_id = 00000000
dd_type=0 dd_mode=0
npu_state=0x000c00
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
no_ofld_reason:

```

An administrator would like to test session failover between the two service provider connections. What changes must the administrator make to force this existing session to immediately start using the other interface? (Choose two.)

- A. Configure set snat-route-change enable.
- B. Change the priority of the port2 static route to 5.
- C. Change the priority of the port1 static route to 11.
- D. unset snat-route-change to return it to the default setting.

**Answer:** AC

**Explanation:**  
 Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 148-149

**NEW QUESTION 115**

An administrator has been assigned the task of creating a set of firewall policies which must be evaluated before any custom policies defined within the policy packages of managed FortiGate devices, across all 25 ADOMs in FortiManager. How should the administrator accomplish this task?

- A. Create a footer policy in the Global ADOM containing the firewall policies that must be evaluated first, and then assign this footer policy to all other ADOMs.
- B. Create a header policy in the Global ADOM containing the firewall policies that must be evaluated first, and then assign this header policy to all other ADOMs.
- C. Move the FortiGate devices into a single globally scoped ADOM, and merge policy packages, inserting the new firewall policies at the top.
- D. Use a CLI script from the root ADOM on FortiManager to push these new policies to all FortiGate devices, through the FGFM tunnel.

**Answer:** B

**Explanation:**  
 Enterprise\_Firewall\_7.0\_Study\_Guide-Online.pdf p 244

**NEW QUESTION 120**

A FortiGate device has the following LDAP configuration:

```
config user ldap
  edit "WindowsLDAP"
    set server "10.0.1.10"
    set cnid "cn"
    set dn "cn=user, dc=trainingAD, dc=training, dc=lab"
    set type regular
    set username "cn=administrator, cn=users, dc=trainingAD,
dc=training, dc=lab"
    set password xxxxx
  next
end
```

The LDAP user student cannot authenticate. The exhibit shows the output of the authentication real time debug while testing the student account:

```
#diagnose debug application fnbamd -1
#diagnose debug enable
#diagnose test authserver ldap WindowsLDAP student password
fnbamd_fsm.c[1819] handle_req-Rcvd auth req 4 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_ist_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[1700] fnbamd_ldap_get_result-Error in ldap result: 49
(Invalid credentials)
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 4
fnbamd_fsm.c[568] destroy_auth_session-delete session 4
authenticate 'student' against 'WindowsLDAP' failed!
```

Based on the above output, what FortiGate LDAP settings must the administrator check? (Choose two.)

- A. cnid.
- B. username.
- C. password.
- D. dn.

**Answer: BC**

**Explanation:**

<https://kb.fortinet.com/kb/viewContent.do?externalId=13141>

#### NEW QUESTION 121

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

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

**Answer: C**

**Explanation:**

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

#### NEW QUESTION 125

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 129**

View the exhibit, which contains the output of diagnose sys session list, and then answer the question below.

```
# 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=
ha_id=0 policy_dir=0 tunnel=/
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=10.200.1.254/10.0.1.10
hook=post dir=org act=snst 10.0.1.10:65464->54.192.15.182:80(10.200.1.1:65464)
hook-pre dir=reply act=dnat 54.192.15.182:80->10.200.1.1:65464(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 is correct regarding the output?

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

**Answer: B**

**NEW QUESTION 130**

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](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-ipsecvpn-54/IPsec_VPN_Concepts/IKE_Packet)

**NEW QUESTION 132**

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 134**

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

```

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

```

What can be concluded about the router in this scenario?

- A. The router 100.64.3.1 needs to update the local AS number in its BGP configuration in order to bring up the BGP session with the local router.
- B. The State/PfxRcd for neighbor 100.64.3.1 will not change until an administrator on the local router adjusts the inbound route filtering so that prefixes received can be added to the RIB.
- C. All of the neighbors displayed are part of a single BGP configuration on the local router with the neighbor-range set to a value of 4.
- D. The BGP session with peer 10.127.0.75 is up.

Answer: D

**NEW QUESTION 137**

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

```
FGT # diagnose debug rating
Locale      : english
Service     : Web-filter
Status      : Enable
License     : Contract
Service     : Antispam
Status      : Disable
Service     : Virus Outbreak Prevention
Status      : Disable
-- Server List (Mon Apr 19 10:41:32 20xx) --
IP          Weight  RTT    Flags  TZ    Packets  Curr Lost  Total Lost
64.26.151.37  10     45     -5     -5    262432   0          846
64.26.151.35  10     46     -5     -5    329072   0          6806
66.117.56.37  10     75     -5     -5    71638    0          275
65.210.95.240 20     71     -8     -8    36875    0          92
209.222.147.36 20     103    DI     -8    34784    0          1070
208.91.112.194 20     107    D      -8    35170    0          1533
96.45.33.65   60     144    0      0     33728    0          120
80.85.69.41   71     226    1      1     33797    0          192
62.209.40.74  150    97     9      9     33754    0          145
121.111.236.179 45     44     F      -5    26410    26226     26227
```

What can be concluded about the debug output in this scenario?

- A. Servers with a negative TZ value are less preferred for rating requests.
- B. There is a natural correlation between the value in the Packets field and the value in the Weight field.
- C. FortiGate used 64.26.151.37 as the initial server to validate its contract.
- D. The first server provided to FortiGate when it performed a DNS query looking for a list of rating servers, was 121.111.236.179.

Answer: B

**NEW QUESTION 140**

Which of the following statements are correct regarding application layer test commands? (Choose two.)

- A. They are used to filter real-time debugs.
- B. They display real-time application debugs.
- C. Some of them display statistics and configuration information about a feature or process.
- D. Some of them can be used to restart an application.

Answer: CD

**Explanation:**

Application layer test commands don't display info in real time, but they do show statistics and configuration info about a feature or process. You can also use some of these commands to restart a process or execute a change in its operation.

**NEW QUESTION 141**

Examine the output of the 'diagnose sys session list expectation' command shown in the exhibit; then answer the question below.

```
#diagnose sys session list expectation

session info: proto= proto_state=0 0 duration=3 expire=26 timeout=3600
flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=39
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
```

Which statement is true regarding the session in the exhibit?

- A. It was created by the FortiGate kernel to allow push updates from FortiGuard.
- B. It is for management traffic terminating at the FortiGate.
- C. It is for traffic originated from the FortiGate.
- D. It was created by a session helper or ALG.

Answer: D

**NEW QUESTION 144**

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

```
# diagnose debug rating
Locale      : English
License     : Contract
Expiration  : Thu Sep 28 17:00:00 20XX
--- Server List (Thu APR 19 10:41:32 20XX) ---
IP          Weight  RTT   Flags  TZ   Packets  Curr Lost  Total Lost
64.26.151.37  10     45    -5     -5   262432  0          846
64.26.151.35  10     46    -5     -5   329072  0          6806
66.117.56.37  10     75    -5     -5   71638   0          275
66.210.95.240 20     71    -8     -8   36875   0          92
209.222.147.36 20     103   DI     -8   34784   0          1070
208.91.112.194 20     107   D      -8   35170   0          1533
96.45.33.65   60     144   0      0    33728   0          120
80.85.69.41   71     226   1      1    33797   0          192
62.209.40.74  150    97    9      9    33754   0          145
121.111.236.179 45     44    F      -5   26410   26226     26227
```

Which statements are true regarding the Weight value?

- A. Its initial value is calculated based on the round trip delay (RTT).
- B. Its initial value is statically set to 10.
- C. Its value is incremented with each packet lost.
- D. It determines which FortiGuard server is used for license validation.

Answer: C

**NEW QUESTION 147**

An administrator cannot connect to the GUI of a FortiGate unit with the IP address 10.0.1.254. The administrator runs the debug flow while attempting the connection using HTTP. The output of the debug flow is shown in the exhibit:

```
# diagnose debug flow filter port 80
# diagnose debug flow trace start 5
# diagnose debug enable

id=20085 trace_id=5 msg="vd-root received a packet(proto=6,
10.0.1.10:57459->10.0.1.254:80) from port3. flag [S], seq 3190430861, ack
0, win 8192"
id=20085 trace_id=5 msg="allocate a new session-0000008c"
id=20085 trace_id=5 msg="iprope_in_check() check failed on policy 0, drop"
```

Based on the error displayed by the debug flow, which are valid reasons for this problem? (Choose two.)

- A. HTTP administrative access is disabled in the FortiGate interface with the IP address 10.0.1.254.
- B. Redirection of HTTP to HTTPS administrative access is disabled.
- C. HTTP administrative access is configured with a port number different than 80.
- D. The packet is denied because of reverse path forwarding check.

Answer: AC

**NEW QUESTION 150**

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