

# Fortinet

## Exam Questions NSE7\_EFW-6.4

Fortinet NSE 7 - Enterprise Firewall 6.4



**NEW QUESTION 1**

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 2**

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

```
NGFW-1 # diagnose sys session stat
misc info:      session_count=591  setup_rate=0  exp_count=0
clash=162  memory_tension_drop=0  ephemeral=0/65536
removeable=0
delete=0, flush=0, dev_down=0/0
TCP sessions:
    166 in NONE state
    1 in ESTABLISHED state
    3 in SYN_SENT state
    2 in TIME_WAIT state
firewall error stat:
error1=00000000
error2=00000000
error3=00000000
error4=00000000
tt=00000000
cont=00000000
ids_recv=00000000
url_recv=00000000
av_recv=00000000
fqdn_count=00000006
global: ses_limit=0  ses6_limit=0  rt_limit=0  rt6_limit=0
```

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

- A. There are 0 ephemeral sessions.
- B. All the sessions in the session table are TCP sessions.
- C. No sessions have been deleted because of memory pages exhaustion.
- D. There are 166 TCP sessions waiting to complete the three-way handshake.

**Answer:** AC

**Explanation:**

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD40578>

**NEW QUESTION 3**

What is the purpose of an internal segmentation firewall (ISFW)?

- A. It inspects incoming traffic to protect services in the corporate DMZ.
- B. It is the first line of defense at the network perimeter.
- C. It splits the network into multiple security segments to minimize the impact of breaches.
- D. It is an all-in-one security appliance that is placed at remote sites to extend the enterprise network.

**Answer:** C

**Explanation:**

ISFW splits your network into multiple security segments. They serve as a breach containers from attacks that come from inside.

**NEW QUESTION 4**

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 5**

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 6**

Which statements about bulk configuration changes using FortiManager CLI scripts are correct? (Choose two.)

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

**Answer:** BD

**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 7**

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



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

msg="received a request /tmp/.ipsengine_498_0_0.url.socket, addr_len=37:
d=www.fortinet.com:80
id=83, vfname='root', vfid=0, profile='default', type=0, client=10.0.1.10,
url_source=1, url=/"
msg="Found it in cache. URL cat=52" IP cat=52user="N/A" src=10.0.1.10
sport=60348 dst=66.171.121.44 dport=80 service="http" hostname="
www.fortinet.com" url=/" matchType=prefix
action=10(ftgd-block) wf-act=3(BLOCK) user="N/A" src=10.0.1.10 sport=60348
dst=66.171.121.44
dport=80 service="http" cat=52 cat desc="Information Technology"
hostname="fortinet.com"
url=/"
```

Which of the following statements is true regarding this output? (Choose two.)

- A. This web request was inspected using the root web filter profile.
- B. FortiGate found the requested URL in its local cache.
- C. The requested URL belongs to category ID 52.
- D. The web request was allowed by FortiGate.

**Answer: BC**

#### NEW QUESTION 8

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

Name

default

Comments

Default web filtering. 22/255

☒

FortiGuard category based filter

Show ☒ Allow

Bandwidth Consuming

☒ File Sharing and Storage

☒

Status URL Filter

Block invalid URLs ☒

URL Filter ☒

+ Create

Edit

Delete

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

Web content filter ☒

+ Create new

Edit

Delete

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 9**

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

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

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

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

**Answer:** C

**Explanation:**

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

**NEW QUESTION 10**

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 10**

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 12**

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

- A. The server does not have the user credentials yet.
- B. The server requires more information from the user, such as the token code for two-factor authentication.
- C. The user credentials are wrong.
- D. The user account is not found in the server.

**Answer:** B

**NEW QUESTION 15**

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

- A. IP addresses are in the same subnet.
- B. Hello and dead intervals match.
- C. OSPF IP MTUs match.
- D. OSPF peer IDs match.
- E. OSPF costs match.

**Answer:** ABC

**Explanation:**

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-advanced-routing-54/Routing\\_OSPF/OSPF\\_Bac](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-advanced-routing-54/Routing_OSPF/OSPF_Bac)

**NEW QUESTION 19**

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 intelligence Starting 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 20**

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: 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: 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:** C

**NEW QUESTION 21**

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 FGVM010000077649
Slave :1 FGVM010000077650
```

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 24

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 27

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 29

Which of the following conditions must be met for a static route to be active in the routing table? (Choose three.)

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

**Answer: CDE**

#### Explanation:

A configured static route only goes to routing table from routing database when all the following are met :

- The outgoing interface is up
- There is no other matching route with a lower distance
- The link health monitor (if configured) is successful
- The next-hop IP address belongs to one of the outgoing interface subnets

#### NEW QUESTION 33

View the exhibit, which contains the output of a diagnose command, and then 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
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
```

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

- A. FortiGate will probe 121.111.236.179 every fifteen minutes for a response.
- B. Servers with the D flag are considered to be down.
- C. Servers with a negative TZ value are experiencing a service outage.
- D. FortiGate used 209.222.147.3 as the initial server to validate its contract.

**Answer:** AD

**Explanation:**

A – because flag is Failed so fortigate will check if server is available every 15 min D-state is I , contact to validate contract info

### NEW QUESTION 38

Examine the partial output from the IKE real time debug shown in the exhibit; then answer the question below.

```
#diagnose debug application ike -1
#diagnose debug enable
ike 0: ....:75: responder: aggressive mode get 1st message...
...
ike 0: ....:76: incoming proposal:
ike 0: ....:76: proposal id = 0:
ike 0: ....:76: protocol id= ISAKMP:
ike 0: ....:76: trans_id = KEY_IKE.
ike 0: ....:76: encapsulation = IKE/none
ike 0: ....:76: type= OAKLEY_ENCRYPT_ALG, val=AES_CBC.
ike 0: ....:76: type= OAKLEY_HASH_ALG, val=SHA2_256.
ike 0: ....:76: type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: ....:76: type=OAKLEY_GROUP, val=MODP2048.
ike 0: ....:76: ISAKMP SA lifetime=86400
ike 0: ....:76: my proposal, gw Remote:
ike 0: ....:76: proposal id=1:
ike 0: ....:76: protocol id= ISAKMP:
ike 0: ....:76: trans_id= KEY_IKE.
ike 0: ....:76: encapsulation = IKE/none
ike 0: ....:76: type=OAKLEY_ENCRYPT_ALG, val=DES_CBC.
ike 0: ....:76: type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0: ....:76: type=AUTH_METHOD, val= PRESHARED_KEY.
ike 0: ....:76: type=OAKLEY_GROUP, val =MODP2048.
ike 0: ....:76: ISAKMP SA lifetime=86400
ike 0: ....:76: proposal id=1:
ike 0: ....:76: protocol id= ISAKMP:
ike 0: ....:76: trans_id= KEY_IKE.
ike 0: ....:76: encapsulation = IKE/none
ike 0: ....:76: type=OAKLEY_ENCRYPT_ALG, val=DES_CBC.
ike 0: ....:76: type= OAKLEY_HASH_ALG, val=SHA2_256.
ike 0: ....:76: type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: ....:76: type=OAKLEY_GROUP, val=MODP1536.
ike 0: ....:76: ISAKMP SA lifetime=86400
ike 0: ....:76: negotiation failure
ike Negotiate ISAKMP SA Error: ike 0: ....:76: no SA proposal chosen
```

Why didn't the tunnel come up?

- A. IKE mode configuration is not enabled in the remote IPsec gateway.
- 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. One IPsec gateway is using main mode, while the other IPsec gateway is using aggressive mode.

**Answer:** C

#### NEW QUESTION 39

What configuration changes can reduce the memory utilization in a FortiGate? (Choose two.)

- A. Reduce the session time to live.
- B. Increase the TCP session timers.
- C. Increase the FortiGuard cache time to live.
- D. Reduce the maximum file size to inspect.

**Answer:** AD

#### NEW QUESTION 41

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
gw=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 42

The logs in a FSSO collector agent (CA) are showing the following error: failed to connect to registry: PIKA1026 (192.168.12.232)  
What can be the reason for this error?

- A. The CA cannot resolve the name of the workstation.
- B. The FortiGate cannot resolve the name of the workstation.
- C. The remote registry service is not running in the workstation 192.168.12.232.
- D. The CA cannot reach the FortiGate with the IP address 192.168.12.232.

**Answer:** C

#### Explanation:

<https://kb.fortinet.com/kb/documentLink.do?externalID=FD30548>

#### NEW QUESTION 47

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 52

Examine the following routing table and BGP configuration; then answer the question below.



```
#get router info routing-table all
*0.0.0.0/0 [10/0] via 10.200.1.254, port1
C10.200.1.0/24 is directly connected, port1
S192.168.0.0/16 [10/0] via 10.200.1.254, port1
# show router bgp
config router bgp
set as 65500
set router-id 10.200.1.1
set network-import-check enable
set ebgp-multipath disable
config neighbor
edit "10.200.3.1"
set remote-as 65501
next
end
config network
edit1
```

The BGP connection is up, but the local peer is NOT advertising the prefix 192.168.1.0/24. Which configuration change will make the local peer advertise this prefix?

- A. Enable the redistribution of connected routers into BGP.
- B. Enable the redistribution of static routers into BGP.
- C. Disable the setting network-import-check.
- D. Enable the setting ebgp-multipath.

**Answer: C**

#### NEW QUESTION 56

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=000000098 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 59

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



```
Spoke-2 # dia vpn tunnel list
list all ipsec tunnel in vd 0
name=VPN ver=1 serial=1 10.200.5.1:0->10.200.4.1:0
bound_if=3 lgwy=static/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refcnt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000 ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
proxyid=VPN proto=0 sa=1 ref=2 serial=1
  src: 0:10.1.2.0/255.255.0:0
  dst: 0:10.1.1.0/255.255.255.0:0
  SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/0B replaywin=2048 seqno=1 esn=0
replaywin_lastseq=00000000
  life: type=01 bytes=0/0 timeout=43177/43200
  dec: spi=cccl1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
    ah=shal key=20 c68091d68753578785de6a7a6b276b506c527efe
  enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
    ah=shal key20 889f7529887c215c25950be2ba83e6fela5367be
  dec:pkts/bytes=0/0, enc:pkts/bytes=0/0
```

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

- A. Anti-reply is enabled.
- B. DPD is disabled.
- C. Quick mode selectors are disabled.
- D. Remote gateway IP is 10.200.5.1.

**Answer:** A

#### NEW QUESTION 61

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 64

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 68

Examine the output of the 'diagnose sys session list expectation' command shown in the exhibit; than 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=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
serial1=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 73

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 rxh=0 txh=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=ccclff66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
        ah=sha1 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 78

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

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

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

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

**Answer: B**

#### NEW QUESTION 82

View the exhibit, which contains a screenshot of some phase-1 settings, and then answer the question below.

Name	Remote
Comments	Comments
<b>Network</b>	
IP Version	<input checked="" type="radio"/> IPv4 <input type="radio"/> IPv6
Remote Gateway	Static IP address
IP Address	10.0.10.1
Interface	port1
Mode Config	<input type="checkbox"/>
NAT Traversal	<input checked="" type="checkbox"/>
Keepalive Frequency	10
Dead Peer Detection	<input checked="" type="checkbox"/>

The VPN is up, and DPD packets are being exchanged between both IPsec gateways; however, traffic cannot pass through the tunnel. To diagnose, the administrator enters these CLI commands:

```
diagnose vpn ike log-filter src-add4 10.0.10.1
diagnose debug application ike-1
diagnose debug enable
```

However, the IKE real time debug does not show any output. Why?

- A. The debug output shows phases 1 and 2 negotiations onl



- B. Once the tunnel is up, it does not show any more output.
- C. The log-filter setting was set incorrectl
- D. The VPN's traffic does not match this filter.
- E. The debug shows only error message
- F. If there is no output, then the tunnel is operating normally.
- G. The debug output shows phase 1 negotiation onl
- H. After that, the administrator must enable the following real time debug: diagnose debug application ipsec -1.

**Answer: B**

#### NEW QUESTION 87

A FortiGate has two default routes:

```
config router static
  edit 1
    set gateway 10.200.1.254
    set priority 5
    set device "port1"
  next
  edit2
    set gateway 10.200.2.254
    set priority 10
    set device "port2"
  next
end
```

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

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

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

- A. Session would remain in the session table and its traffic would keep using port1 as the outgoing interface.
- B. Session would remain in the session table and its traffic would start using port2 as the outgoing interface.
- C. Session would be deleted, so the client would need to start a new session.
- D. Session would remain in the session table and its traffic would be shared between port1 and port2.

**Answer: A**

#### NEW QUESTION 90

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

- A. Only the root FortiGate collects network information and forwards it to FortiAnalyzer.
- B. FortiGate uses FortiTelemetry protocol to communicate with FortiAnalyzer.
- C. All FortiGate devices in the Security Fabric must have bidirectional FortiTelemetry connectivity.
- D. Branch FortiGate devices must be configured first.

**Answer: BC**

#### NEW QUESTION 93

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