

## NSE7\_EFW-7.0 Dumps

### Fortinet NSE 7 - Enterprise Firewall 7.0

[https://www.certleader.com/NSE7\\_EFW-7.0-dumps.html](https://www.certleader.com/NSE7_EFW-7.0-dumps.html)



**NEW QUESTION 1**

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 2**

When using the SSL certificate inspection method to inspect HTTPS traffic, how does FortiGate filter web requests when the client browser does not provide the server name indication (SNI) extension?

- A. FortiGate uses the requested URL from the user's web browser.
- B. FortiGate uses the CN information from the Subject field in the server certificate.
- C. FortiGate blocks the request without any further inspection.
- D. FortiGate switches to the full SSL inspection method to decrypt the data.

**Answer: B**

**NEW QUESTION 3**

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

```
FGT # 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 send 27, DD received 6 sent 3
LS-Req received 2 sent 2, LS-Upd received 7 sent 17
LS-Ack received 4 sent 3, Discarded 1
```

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

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

**Answer: AB**

**Explanation:**

Area 0.0.0.0 is the backbone area.

**NEW QUESTION 4**

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 5**

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

```
ike 0: comes 10.0.0.2:500->10.0.0.1:500, ifindex=7. . .
ike 0: IKEv2 exchange=Aggressive id=a2fbd6bb6394401a/06b89c022d4df682 len=426
ike 0: Remotesite:3: initiator: aggressive mode get 1st response. . .
ike 0: Remotesite:3: VID DPD AFCAD71368A1F1C96B8696FC77570100
ike 0: Remotesite:3: DPD negotiated
ike 0: Remotesite:3: VID PORTIGATE 8299031757A36082C6A621DE00000000
ike 0: Remotesite:3: peer is FortiGate/FortiOS (v0 b0)
ike 0: Remotesite:3: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3
ike 0: Remotesite:3: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000
ike 0: Remotesite:3: received peer identifier FQDN 'remote'
ike 0: Remotesite:3: negotiation result
ike 0: Remotesite:3: proposal id = 1:
ike 0: Remotesite:3:   protocol id = ISAKMP:
ike 0: Remotesite:3:   trans_id = KEY_IKE.
ike 0: Remotesite:3:   encapsulation = IKE/none.
ike 0: Remotesite:3:     type=OAKLEY_ENCRYPT_ALG, val=AES_CBC, key-len=128
ike 0: Remotesite:3:     type=OAKLEY_HASH_ALG, val=SHA.
ike 0: Remotesite:3:     type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0: Remotesite:3:     type=OAKLEY_GROUP, val=MODP1024.
ike 0: Remotesite:3: ISAKMP SA lifetime=86400
ike 0: Remotesite:3: NAT-T unavailable
ike 0: Remotesite:3: ISAKMP SA a2fbd6bb6394401a/06b89c022d4df682 key
16:39915120ED73ED73E520787C801DE3678916
ike 0: Remotesite:3: PSK authentication succeeded
ike 0: Remotesite:3: authentication OK
ike 0: Remotesite:3: add INITIAL-CONTACT
ike 0: Remotesite:3: enc
A2FBD6BB6394401A06B89C022D4DF682081004010000000000000500B000018882A07BE09026CA8B2
ike 0: Remotesite:3: out
A2FBD6BB6394401A06B89C022D4DF6820810040100000000000005C64D5CBA90B873F150CB8B5CC2A
ike 0: Remotesite:3: sent IKE msg (agg_i2send): 10.0.0.1:500->10.0.0.2:500, len=140,
id=a2fbd6bb6394401a/
ike 0: Remotesite:3: established IKE SA a2fbd6bb6394401a/06b89c022d4df682
```

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

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

**Answer:** BC

**NEW QUESTION 6**

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

```
Spoke-2 # dia vpn tunnel list
list all ipsec tunnel in vd 0

-----

name=VPN ver=1 serial=1 10.200.5.1:0->10.200.4.1:0
bound_if=3 lgwy=static/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refcnt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
proxyid=VPN proto=0 sa=1 ref=2 serial=1
  src: 0:10.1.2.0/255.255.255.0:0
  dst: 0:10.1.1.0/255.255.255.0:0
  SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/0B replaywin=2048 seqno=1 esn=0
replaywin_lastseq=00000000
  life: type=01 bytes=0/0 timeout=43177/43200
  dec: spi=cccl1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
    ah=sha1 key=20 c68091d68753578785de6a7a6b276b506c527efe
  enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
    ah=sha1 key=20 889f7529887c215c25950be2ba83e6fela5367be
  dec: pkts/bytes=0/0, enc:pkts/bytes=0/0
```

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

- A. Anti-replay is enabled



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

**Answer:** AB

#### NEW QUESTION 7

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 8

An administrator wants to capture ESP traffic between two FortiGates using the built-in sniffer. If the administrator knows that there is no NAT device located between both FortiGates, what command should the administrator execute?

- A. diagnose sniffer packet any 'udp port 500'
- B. diagnose sniffer packet any 'udp port 4500'
- C. diagnose sniffer packet any 'esp'
- D. diagnose sniffer packet any 'udp port 500 or udp port 4500'

**Answer:** C

#### Explanation:

Capture IKE Traffic without NAT:diagnose sniffer packet 'host and udp port 500'

-----Capture ESP

Traffic without NAT:diagnose sniffer packet any 'host and esp'

-----Capture IKE

and ESP with NAT-T:diagnose sniffer packet any 'host and (udp port 500 or udp port 4500)'

#### NEW QUESTION 9

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
origin-> 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
seriall=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 FotiGuard.
- 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 10

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 10

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 15**

Examine the IPsec configuration shown in the exhibit; then answer the question below.

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

An administrator wants to monitor the VPN by enabling the IKE real time debug using these commands: diagnose vpn ike log-filter src-addr4 10.0.10.1  
diagnose debug application ike -1  
diagnose debug enable

The VPN is currently up, there is no traffic crossing the tunnel and DPD packets are being interchanged between both IPsec gateways. However, the IKE real time debug does NOT show any output. Why isn't there any output?

- A. The IKE real time shows the phases 1 and 2 negotiations onl
- B. It does not show any more output once the tunnel is up.
- C. The log-filter setting is set incorrectl
- D. The VPN's traffic does not match this filter.
- E. The IKE real time debug shows the phase 1 negotiation onl
- F. For information after that, the administrator must use the IPsec real time debug instead: diagnose debug application ipsec -1.
- G. The IKE real time debug shows error messages onl
- H. If it does not provide any output, it indicates that the tunnel is operating normally.

**Answer:** B

**NEW QUESTION 16**

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 18**

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 23**

Refer to the exhibits.

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

Which contain the partial configurations of two VPNs on FortiGate.

An administrator has configured two VPNs for two different user groups. Users who are in the Users-2 group are not able to connect to the VPN. After running a diagnostics command, the administrator discovered that FortiGate is not matching the user-2 VPN for members of the Users-2 group.

Which two changes must administrator make to fix the issue? (Choose two.)

- A. Use different pre-shared keys on both VPNs
- B. Enable Mode Config on both VPNs.
- C. Set up specific peer IDs on both VPNs.
- D. Change to aggressive mode on both VPNs.

**Answer:** CD

**NEW QUESTION 27**

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 30**

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 minD-state is I , contact to validate contract info

**NEW QUESTION 32**

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 37**

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 39**

An administrator has configured a FortiGate device with two VDOMs: root and internal. The administrator has also created an inter-VDOM link that connects both VDOMs. The objective is to have each VDOM advertise some routes to the other VDOM via OSPF through the inter-VDOM link. What OSPF configuration settings must match in both VDOMs to have the OSPF adjacency successfully forming? (Choose three.)

- A. Router ID.
- B. OSPF interface area.
- C. OSPF interface cost.
- D. OSPF interface MTU.
- E. Interface subnet mask.

**Answer:** BDE

**NEW QUESTION 41**

When using the SSL certificate inspection method for HTTPS traffic, how does FortiGate filter web requests when the browser client does not provide the server name indication (SNI) extension?

- A. FortiGate uses CN information from the Subject field in the server's certificate.

- B. FortiGate switches to the full SSL inspection method to decrypt the data.  
C. FortiGate blocks the request without any further inspection.  
D. FortiGate uses the requested URL from the user's web browser.

**Answer:** A

#### NEW QUESTION 42

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

The screenshot shows the configuration for a web filter profile named 'default'. The 'FortiGuard category based filter' is enabled, showing a list of categories: 'Bandwidth Consuming' and 'File Sharing and Storage'. The 'Status URL Filter' is also enabled, with 'Block invalid URLs' and 'URL Filter' toggled on. Below this is a table of URL filters:

URL	Type	Action	Status
*dropbox.com	Wildcard	Block	Enable

Below the URL filter table is the 'Web content filter' section, which is also enabled. It contains a table of web content filters:

Pattern Type	Pattern	Language	Action	Status
Wildcard	*dropbox*	Western	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 47

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

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

**Answer:** B

#### NEW QUESTION 52

What global configuration setting changes the behavior for content-inspected traffic while FortiGate is in system conserve mode?

- A. av-failopen  
B. mem-failopen  
C. utm-failopen  
D. ips-failopen

**Answer:** A

#### Explanation:

[https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-security-profiles-54/Other\\_Profile\\_Consideratio](https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-security-profiles-54/Other_Profile_Consideratio)

#### NEW QUESTION 57

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 58

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 61

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 63

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

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

**Answer:** AC

#### NEW QUESTION 64

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 65

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 69

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 73

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: D**

#### NEW QUESTION 77

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

question below.

```
# get router info ospf interface port4
port4 is up, line protocol is up
  Internet Address 172.20.121.236/24, Area 0.0.0.0, MTU 1500
  Process ID 0, Router ID 0.0.0.4, Network Type BROADCAST, Cost: 1
  Transmit Delay is 1 sec, State DROther, Priority 1
  Designated Router (ID) 172.20.140.2, Interface Address 172.20.121.2
  Backup Designated Router (ID) 0.0.0.1, Interface Address
  172.20.121.239
  Timer intervals configured, Hello 10.000, Dead 40, Wait 40, Retransmit
  5
    Hello due in 00:00:05
  Neighbor Count is 4, Adjacent neighbor count is 2
  Crypt Sequence Number is 411
  Hello received 106, sent 27, DD received 7 sent 9
  LS-Req received 2 sent 2, LS-Upd received 7 sent 5
  LS-Ack received 4 sent 3, Discarded 1
```

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

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

**Answer:** AC

**Explanation:**

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

**NEW QUESTION 79**

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 84**

In which two states is a given session categorized as ephemeral? (Choose two.)

- A. A TCP session waiting to complete the three-way handshake.
- B. A TCP session waiting for FIN ACK.
- C. A UDP session with packets sent and received.
- D. A UDP session with only one packet received.

**Answer:** AD

**NEW QUESTION 89**

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 91

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 96

View these partial outputs from two routing debug commands:

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

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

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

**Answer: C**

### NEW QUESTION 98

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 102

Examine the output from the 'diagnose vpn tunnel list' command shown in the exhibit; then answer the question below.

```
#diagnose vpn tunnel list
name=Dial Up_0 ver=1 serial=5 10.200.1.1:4500->10.200.3.2: 64916 lgwy=static
nun=intf mode=dial_inst.bound if=2
parent=DialUp index=0
proxyid_um=1 child_num=0 refcnt=8 ilast=4 olast=4
stat: rxp=104 txp=8 rxb=27392 txb=480
dpd: mode=active on=1 idle=5000ms retry=3 count=0 segno=70
natt: mode=silent draft=32 interval= 10 remote_port=64916
proxyid= DialUp proto=0 sa=1 ref=2 serial=1 add-route
src: 0:0.0.0.0.-255.255.255.255:0
dst: 0:10.0.10.10.-10.0.10.10:0
SA: ref=3 options= 00000086 type=00 soft=0 mtu=1422 expire =42521
replaywin=2048 seqno=9
life: type=01 bytes=0/0 timeout= 43185/43200
dec: spi=cb3a632a esp=aes key=16 7365e17a8fd555ec38bffa47d650c1a2
ah=sha1 key=20 946bfb9d23b8b53770dcf48ac2af82b8ccc6aa85
enc: spi=da6d28ac esp=aes key=16 3dcf44ac7c816782ea3d0c9a977ef543
ah=sha1 key=20 7cfde587592fc4635ab8db8ddf0d851d868b243f
dec:pkts/bytes=104/19926, enc:pkts/bytes=8/1024
```

Which command can be used to sniff the ESP traffic for the VPN DialUP\_0?

- A. diagnose sniffer packet any 'port 500'
- B. diagnose sniffer packet any 'esp'
- C. diagnose sniffer packet any 'host 10.0.10.10'
- D. diagnose sniffer packet any 'port 4500'

**Answer: D**

#### Explanation:

NAT-T is enabled. natt: mode=silentProtocol ESP is used. ESP is encapsulated in UDP port 4500 when NAT-T is enabled.  
natt: mode=silent means IPsec is behind NAT (NAT traversal) <https://kb.fortinet.com/kb/documentLink.do?externalID=FD48755>

### NEW QUESTION 103

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

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

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

Which of the following statements is true regarding this output?

- A. The requested URL belongs to category ID 255.
- B. The server hostname is training, fortinet.com.
- C. FortiGate found the requested URL in its local cache.

D. This web request was inspected using the ftgd-allow web filler profile.

**Answer: C**

#### NEW QUESTION 106

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

```
f 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
orgin=>sink: org pre->post, reply pre->post dev=4->2/2->4
qwy=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 109

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 111

.....



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