

# NSE7\_EFW-6.4<sup>Q&As</sup>

Fortinet NSE 7 - Enterprise Firewall 6.4





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## QUESTION 1

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
Ovr request timeout  : 0
Ovr send failures    : 0
Ovr read failures    : 0
Ovr 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.

Correct Answer: C

## QUESTION 2

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.

Correct Answer: C

## QUESTION 3

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

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

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

What should the administrator check to fix the problem?

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

Correct Answer: A

#### QUESTION 4

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

Correct Answer: D

Reference: <https://docs.fortinet.com/document/fortigate/6.0.0/handbook/320160/example-advpnconfiguration>

First the Spoke receives SHORTCUT\_OFFER, it responds with sending shortcut-query. AT the end it receives SHORTCUT\_REPLY and creates new dynamic tunnel (H2S\_0\_0).

---

## QUESTION 5

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.

Correct Answer: CD

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.

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