

# Fortinet

## Exam Questions NSE4\_FGT-7.2

Fortinet NSE 4 - FortiOS 7.2



### NEW QUESTION 1

Which two protocols are used to enable administrator access of a FortiGate device? (Choose two.)

- A. FTM
- B. SSH
- C. HTTPS
- D. FortiTelemetry

**Answer: BC**

### NEW QUESTION 2

Which three methods are used by the collector agent for AD polling? (Choose three.)

- A. FortiGate polling
- B. NetAPI
- C. Novell API
- D. WMI
- E. WinSecLog

**Answer: BDE**

### NEW QUESTION 3

Which statement is correct regarding the use of application control for inspecting web applications?

- A. Application control can identify child and parent applications, and perform different actions on them.
- B. Application control signatures are organized in a nonhierarchical structure.
- C. Application control does not require SSL inspection to identify web applications.
- D. Application control does not display a replacement message for a blocked web application.

**Answer: A**

### NEW QUESTION 4

What are two benefits of flow-based inspection compared to proxy-based inspection? (Choose two.)

- A. FortiGate uses fewer resources.
- B. FortiGate performs a more exhaustive inspection on traffic.
- C. FortiGate adds less latency to traffic.
- D. FortiGate allocates two sessions per connection.

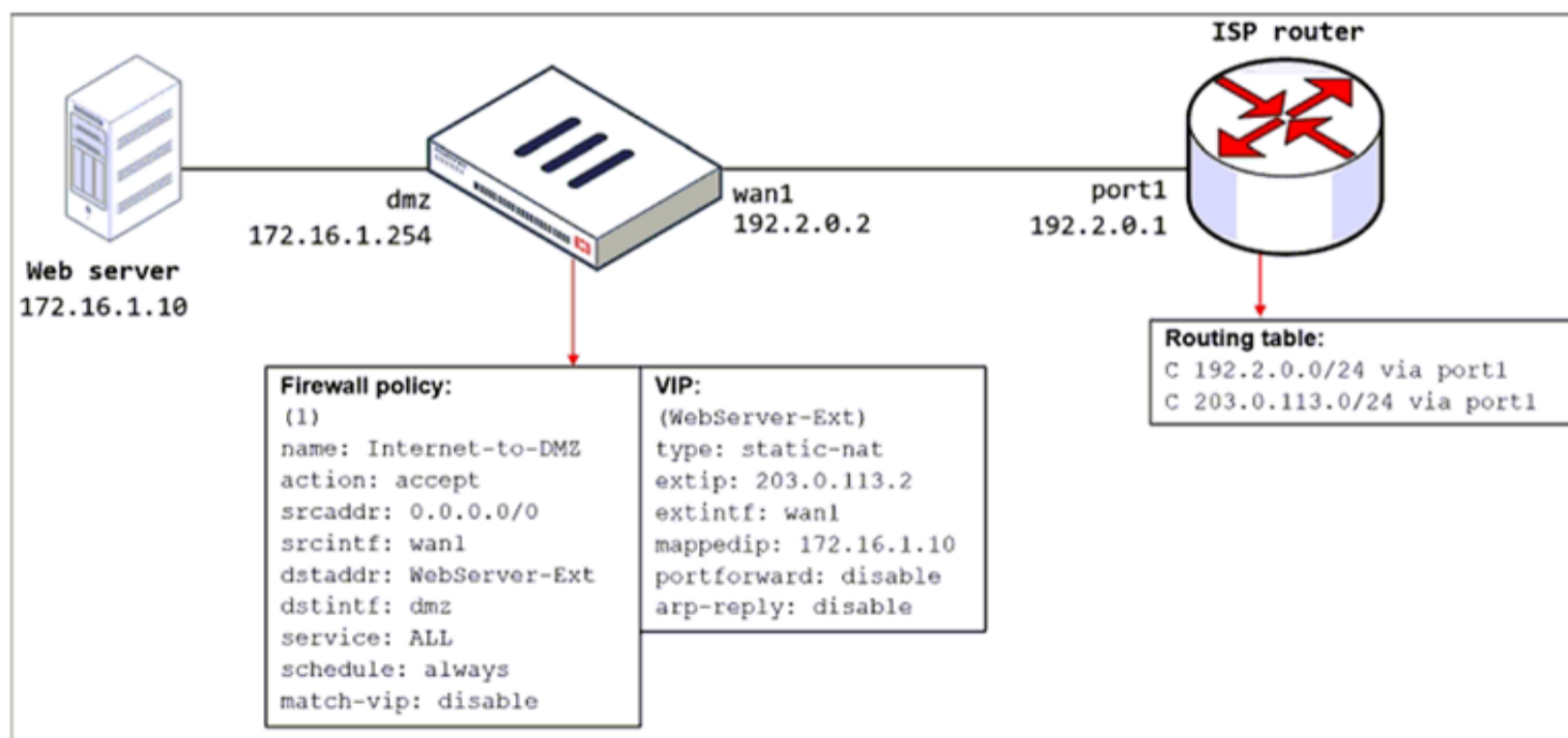
**Answer: AC**

### NEW QUESTION 5

Refer to the exhibit.

The exhibit shows a diagram of a FortiGate device connected to the network, the firewall policy and VIP configuration on the FortiGate device, and the routing table on the ISP router.

When the administrator tries to access the web server public address (203.0.113.2) from the internet, the connection times out. At the same time, the administrator runs a sniffer on FortiGate to capture incoming web traffic to the server and does not see any output.



Based on the information shown in the exhibit, what configuration change must the administrator make to fix the connectivity issue?

- A. Configure a loopback interface with address 203.0.113.2/32.
- B. In the VIP configuration, enable arp-reply.
- C. Enable port forwarding on the server to map the external service port to the internal service port.

D. In the firewall policy configuration, enable match-vip.

**Answer:** D

#### NEW QUESTION 6

Which two settings are required for SSL VPN to function between two FortiGate devices? (Choose two.)

- A. The client FortiGate requires a manually added route to remote subnets.
- B. The client FortiGate requires a client certificate signed by the CA on the server FortiGate.
- C. The server FortiGate requires a CA certificate to verify the client FortiGate certificate.
- D. The client FortiGate requires the SSL VPN tunnel interface type to connect SSL VPN.

**Answer:** BC

#### NEW QUESTION 7

Refer to the exhibit showing a debug flow output.

```
id=20085 trace_id=1 func=print_pkt_detail line=5594 msg="vd-root:0 received a packet(proto=1,
10.0.1.10:19938->10.0.1.250:2048) from port1. type=8, code=0, id=19938, seq=1."
id=20085 trace_id=1 func=init_ip_session_common line=5760 msg="allocate a new session-00003dd5"
id=20085 trace_id=1 func=vf_ip_route_input_common line=2598 msg="find a route: flag=84000000 gw-
10.0.1.250 via root"
id=20085 trace_id=2 func=print_pkt_detail line=5594 msg="vd-root:0 received a packet(proto=1,
10.0.1.250:19938->10.0.1.10:0) from local. type=0, code=0, id=19938, seq=1."
id=20085 trace_id=2 func=resolve_ip_tuple_fast line=5675 msg="Find an existing session, id-
00003dd5, reply direction"
```

What two conclusions can you make from the debug flow output? (Choose two.)

- A. The debug flow is for ICMP traffic.
- B. The default route is required to receive a reply.
- C. A new traffic session was created.
- D. A firewall policy allowed the connection.

**Answer:** AC

#### NEW QUESTION 8

Refer to the exhibits.

Exhibit A shows system performance output. Exhibit B shows a FortiGate configured with the default configuration of high memory usage thresholds.

Exhibit A   Exhibit B

```
# get system performance status
CPU states: 0% user 0% system 0% nice 100% idle 0% iowait 0% irq 0% softirq
CPU0 states: 0% user 0% system 0% nice 100% idle 0% iowait 0% irq 0% softirq
Memory: 2061108k total, 1854997k used (90%), 106111k free (5.1%), 100000k freeable (4.8%)
Average network usage: 83 / 0 kbps in 1 minute, 81 / 0 kbps in 10 minutes, 81 / 0 kbps in 30
minutes
Average sessions: 5 sessions in 1 minute, 3 sessions in 10 minutes, 3 sessions in 30 minutes
Average session setup rate: 0 sessions per second in last 1 minute, 0 sessions per second in last
10 minutes, 0 sessions per second in last 30 minutes
Virus caught: 0 total in 1 minute
IPS attacks blocked: 0 total in 1 minute
Uptime: 10 days, 3 hours, 28 minutes
```

Exhibit A   Exhibit B

```
config system global
    set memory-use-threshold-red 88
    set memory-use-threshold-extreme 95
    set memory-use-threshold-green 82
end
```

Based on the system performance output, which two results are correct? (Choose two.)

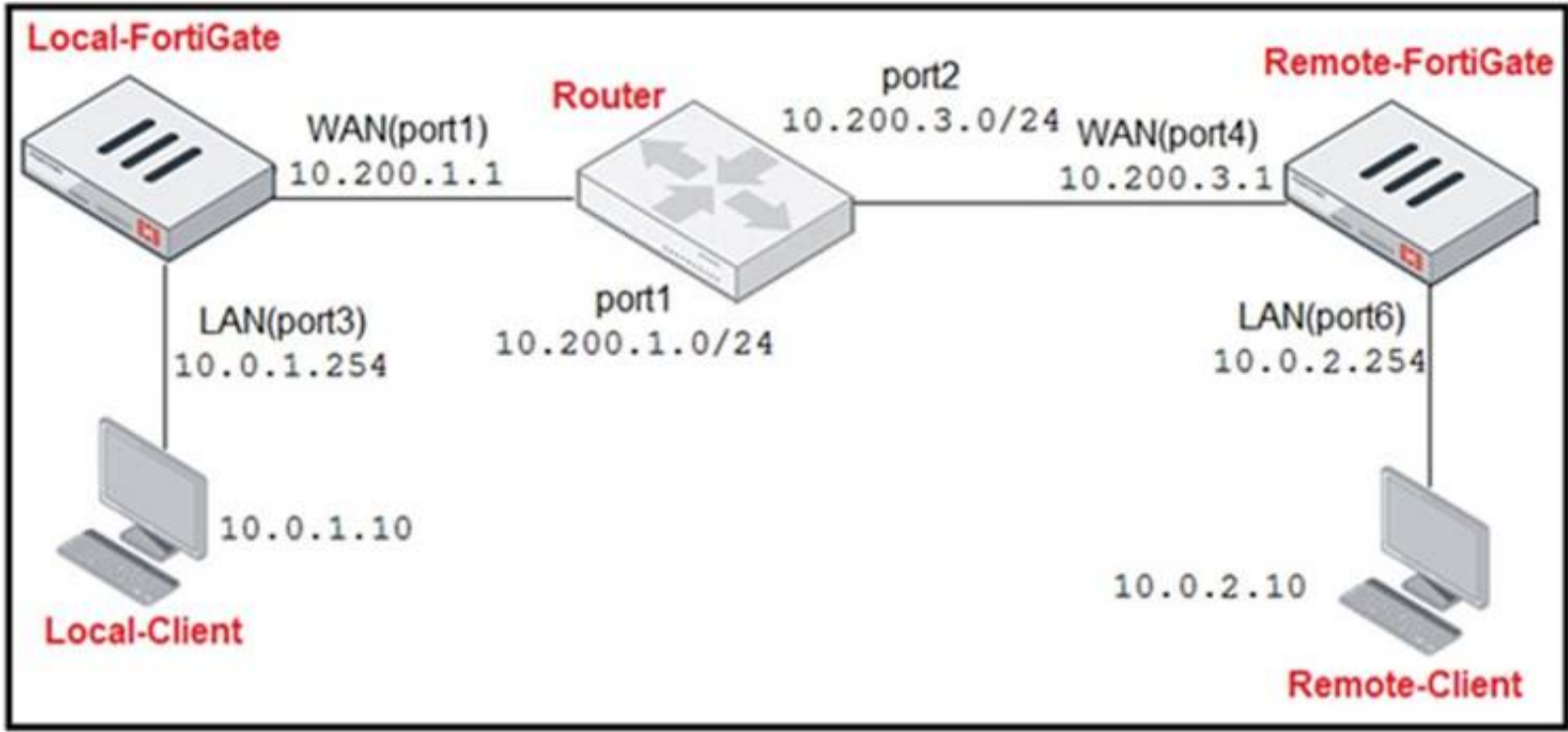
- A. FortiGate will start sending all files to FortiSandbox for inspection.
- B. FortiGate has entered conserve mode.
- C. Administrators cannot change the configuration.
- D. Administrators can access FortiGate only through the console port.

**Answer:** BD

#### NEW QUESTION 9

Refer to the exhibit.

### Network Diagram



### Central SNAT Policies Local-FortiGate

ID	From	To	Source Address	Protocol Number	Destination Address	Translated Address
2	LAN(port3)	WAN(port1)	all	6	REMOTE_FORTIGATE	SNAT-Pool
1	LAN(port3)	WAN(port1)	all	1	all	SNAT-Remote1
3	LAN(port3)	WAN(port1)	all	2	all	SNAT-Remote

### IP Pool Local-FortiGate

Name	External IP Range	Type	ARP Reply
SNAT-Pool	10.200.1.49-10.200.1.49	Overload	Enabled
SNAT-Remote	10.200.1.149-10.200.1.149	Overload	Enabled
SNAT-Remote1	10.200.1.99-10.200.1.99	Overload	Enabled

### Protocol Number Table

Protocol	Protocol Number
TCP	6
ICMP	1
IGMP	2

The exhibit contains a network diagram, central SNAT policy, and IP pool configuration. The WAN (port1) interface has the IP address 10.200. 1. 1/24. The LAN (port3) interface has the IP address 10.0. 1.254/24. A firewall policy is configured to allow to destinations from LAN (port3) to WAN (port1). Central NAT is enabled, so NAT settings from matching Central SNAT policies will be applied. Which IP address will be used to source NAT the traffic, if the user on Local-Client (10.0. 1. 10) pings the IP address of Remote-FortiGate (10.200.3. 1)?

A. 10.200. 1. 149  
 B. 10.200. 1. 1  
 C. 10.200. 1.49  
 D. 10.200. 1.99

Answer: D

**NEW QUESTION 10**  
 Refer to the web filter raw logs.

```
date=2020-07-09 time=12:51:51 logid="0316013057" type="utm"
subtype="webfilter" eventtype="ftgd_blk" level="warning"
vd="root" eventtime=1594313511250173744 tz="-0400" policyid=1
sessionid=5526 srcip=10.0.1.10 srcport=48660 srcintf="port2"
srcintfrole="undefined" dstip=104.244.42.193 dstport=443
dstintf="port1" dstintfrole="undefined" proto=6 service="HTTPS"
hostname="twitter.com" profile="all_users_web" action="blocked"
reqtype="direct" url="https://twitter.com/" sentbyte=517
rcvdbyte=0 direction="outgoing" msg="URL belongs to a category
with warnings enabled" method="domain" cat=37 catdesc="Social
Networking"

date=2020-07-09 time=12:52:16 logid="0316013057" type="utm"
subtype="webfilter" eventtype="ftgd_blk" level="warning"
vd="root" eventtime=1594313537024536428 tz="-0400" policyid=1
sessionid=5552 srcip=10.0.1.10 srcport=48698 srcintf="port2"
srcintfrole="undefined" dstip=104.244.42.193 dstport=443
dstintf="port1" dstintfrole="undefined" proto=6 service="HTTPS"
hostname="twitter.com" profile="all_users_web"
action="passthrough" reqtype="direct" url="https://twitter.com/"
sentbyte=369 rcvdbyte=0 direction="outgoing" msg="URL belongs to
a category with warnings enabled" method="domain" cat=37
catdesc="Social Networking"
```

Based on the raw logs shown in the exhibit, which statement is correct?

- A. Social networking web filter category is configured with the action set to authenticate.
- B. The action on firewall policy ID 1 is set to warning.
- C. Access to the social networking web filter category was explicitly blocked to all users.
- D. The name of the firewall policy is all\_users\_web.

**Answer:** A

#### NEW QUESTION 10

Which three security features require the intrusion prevention system (IPS) engine to function? (Choose three.)

- A. Web filter in flow-based inspection
- B. Antivirus in flow-based inspection
- C. DNS filter
- D. Web application firewall
- E. Application control

**Answer:** ABE

#### Explanation:

<https://docs.fortinet.com/document/fortigate/7.0.0/new-features/739623/dns-filter-handled-by-ips-engine-in-flow>

#### NEW QUESTION 14

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

- A. IP tool references must be removed from existing firewall policies before enabling central NAT .
- B. Central NAT can be enabled or disabled from the CLI only.
- C. Source NAT, using central NAT, requires at least one central SNAT policy.
- D. Destination NAT, using central NAT, requires a VIP object as the destination address in a firewall.

**Answer:** AB

#### NEW QUESTION 16

Which two statements explain antivirus scanning modes? (Choose two.)

- A. In proxy-based inspection mode, files bigger than the buffer size are scanned.
- B. In flow-based inspection mode, FortiGate buffers the file, but also simultaneously transmits it to the client.
- C. In proxy-based inspection mode, antivirus scanning buffers the whole file for scanning, before sending it to the client.
- D. In flow-based inspection mode, files bigger than the buffer size are scanned.

**Answer:** BC

#### Explanation:

An antivirus profile in full scan mode buffers up to your specified file size limit. The default is 10 MB. That is large enough for most files, except video files. If your FortiGate model has more RAM, you may be able to increase this threshold. Without a limit, very large files could exhaust the scan memory. So, this threshold balances risk and performance. Is this tradeoff unique to FortiGate, or to a specific model? No. Regardless of vendor or model, you must make a choice. This is because of the difference between scans in theory, that have no limits, and scans on real-world devices, that have finite RAM. In order to detect 100% of malware regardless of file size, a firewall would need infinitely large RAM--something that no device has in the real world. Most viruses are very small. This table shows a typical tradeoff. You can see that with the default 10 MB threshold, only 0.01% of viruses pass through.

**NEW QUESTION 20**

Which statement about video filtering on FortiGate is true?

- A. Full SSL Inspection is not required.
- B. It is available only on a proxy-based firewall policy.
- C. It inspects video files hosted on file sharing services.
- D. Video filtering FortiGuard categories are based on web filter FortiGuard categories.

**Answer:** B

**NEW QUESTION 25**

Which two statements are correct regarding FortiGate HA cluster virtual IP addresses? (Choose two.)

- A. Heartbeat interfaces have virtual IP addresses that are manually assigned.
- B. A change in the virtual IP address happens when a FortiGate device joins or leaves the cluster.
- C. Virtual IP addresses are used to distinguish between cluster members.
- D. The primary device in the cluster is always assigned IP address 169.254.0.1.

**Answer:** BD

**NEW QUESTION 29**

Refer to the exhibit, which contains a session diagnostic output.

```
session info: proto=17 proto_state=01 duration=254 expire=179 timeout=0 flags=00000000 socktype=0 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ helper=dns-udp vlan_cos=0/255
state=log may_dirty f00 log-start
statistic(bytes/packets/allow_err): org=1420/22/1 reply=5678/22/1 tuples=2
tx speed(Bps/kbps): 5/0 rx speed(Bps/kbps): 22/0
origin->sink: org pre->post, reply pre->post dev=5->3/3->5 gwy=10.200.1.254/10.0.1.200
hook=post dir=org act=snat 10.0.1.200:2486->208.91.112.53:53(10.200.1.1:62902)
hook=pre dir=reply act=dnat 208.91.112.53:53->10.200.1.1:62902(10.0.1.200:2486)
misc=0 policy_id=3 auth_info=0 chk_client_info=0 vd=0
serial=0001fc1e tos=ff/ff app_list=0 app=0 url_cat=0
rpd_b_link_id= 00000000 rpd_b_svc_id=0 ngfwid=n/a
npu_state=0x040000
```

Which statement is true about the session diagnostic output?

- A. The session is a UDP unidirectional state.
- B. The session is in TCP ESTABLISHED state.
- C. The session is a bidirectional UDP connection.
- D. The session is a bidirectional TCP connection.

**Answer:** C

**Explanation:**

<https://kb.fortinet.com/kb/viewContent.do?externalId=FD30042>

**NEW QUESTION 33**

Refer to the exhibits to view the firewall policy (Exhibit A) and the antivirus profile (Exhibit B).

**Edit Policy**

Inspection Mode **Flow-based** Proxy-based

Firewall / Network Options

NAT ☒

IP Pool Configuration **Use Outgoing Interface Address**  
 Use Dynamic IP Pool

Preserve Source Port ☐

Protocol Options **PRX** default

Security Profiles


AntiVirus ☒ **AV** default

Web Filter ☐

DNS Filter ☐

Application Control ☐

IPS ☐

SSL Inspection  **SSL** deep-inspection

Decrypted Traffic Mirror ☐

**Edit AntiVirus Profile**

Name default

Comments Scan files and block viruses. 29/255

Detect Viruses **Block** Monitor

Feature set **Flow-based** Proxy-based

Inspected Protocols

HTTP ☒

SMTP ☒

POP3 ☒

IMAP ☒


FTP ☒

CIFS ☐



APT Protection Options

Treat Windows Executables in Email Attachments as Viruses ☒

Include Mobile Malware Protection ☒

Virus Outbreak Prevention 

Use FortiGuard Outbreak Prevention Database ☐

Use External Malware Block List   ☐

Which statement is correct if a user is unable to receive a block replacement message when downloading an infected file for the first time?

- A. The firewall policy performs the full content inspection on the file.
- B. The flow-based inspection is used, which resets the last packet to the user.
- C. The volume of traffic being inspected is too high for this model of FortiGate.
- D. The intrusion prevention security profile needs to be enabled when using flow-based inspection mode.

**Answer: B**

**Explanation:**

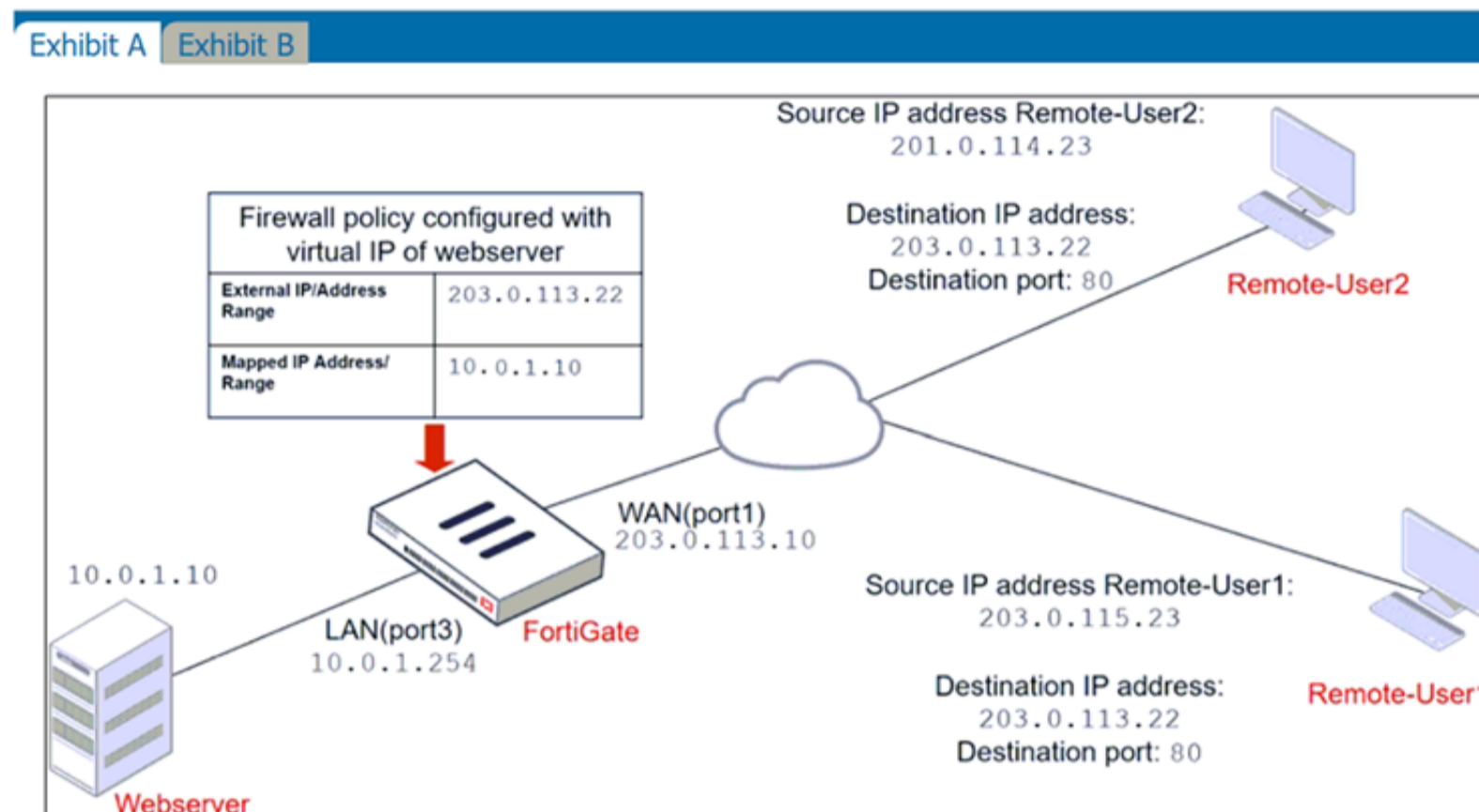
- "ONLY" If the virus is detected at the "START" of the connection, the IPS engine sends the block replacement message immediately
  - When a virus is detected on a TCP session (FIRST TIME), but where "SOME PACKETS" have been already forwarded to the receiver, FortiGate "resets the connection" and does not send the last piece of the file. Although the receiver got most of the file content, the file has been truncated and therefore, can't be opened. The IPS engine also caches the URL of the infected file, so that if a "SECOND ATTEMPT" to transmit the file is made, the IPS engine will then send a block replacement message to the client instead of scanning the file again.
- In flow mode, the FortiGate drops the last packet killing the file. But because of that the block replacement message cannot be displayed. If the file is attempted to download again the block message will be shown.

#### NEW QUESTION 34

Refer to the exhibits.

The exhibits show a network diagram and firewall configurations.

An administrator created a Deny policy with default settings to deny Webserver access for Remote-User2. Remote-User1 must be able to access the Webserver. Remote-User2 must not be able to access the Webserver.



**Exhibit A** **Exhibit B**

**Firewall address object**

Name	Deny_IP
Color	Change
Type	Subnet
IP/Netmask	201.0.114.23/32
Interface	WAN (port1)
Static route configuration	<input type="checkbox"/>
Comments	Deny web server access. 23/255

**Firewall policies**

ID	Name	Source	Destination	Schedule	Service	Action
WAN (port1) → LAN (port3) 2						
4	Deny	Deny_IP	all	always	ALL	DENY
3	Allow_access	all	Webserver	always	ALL	ACCEPT

In this scenario, which two changes can the administrator make to deny Webserver access for Remote-User2? (Choose two.)

- Disable match-vip in the Deny policy.
- Set the Destination address as Deny\_IP in the Allow-access policy.
- Enable match vip in the Deny policy.
- Set the Destination address as Web\_server in the Deny policy.

**Answer:** CD

**Explanation:**

<https://community.fortinet.com/t5/FortiGate/Technical-Tip-Firewall-does-not-block-incoming-WAN-to-LAN/ta>

#### NEW QUESTION 38

An administrator is configuring an Ipsec between site A and siteB. The Remotes Gateway setting in both sites has been configured as Static IP Address. For site A, the local quick mode selector is 192.168. 1.0/24 and the remote quick mode selector is 192.168.2.0/24. Which subnet must the administrator configure for the

local quick mode selector for site B?

- A. 192.168.3.0/24
- B. 192.168.2.0/24
- C. 192.168. 1.0/24
- D. 192.168.0.0/8

**Answer:** C

#### **NEW QUESTION 39**

If the Issuer and Subject values are the same in a digital certificate, which type of entity was the certificate issued to?

- A. A CRL
- B. A person
- C. A subordinate CA
- D. A root CA

**Answer:** D

#### **NEW QUESTION 42**

Which CLI command will display sessions both from client to the proxy and from the proxy to the servers?

- A. diagnose wad session list
- B. diagnose wad session list | grep hook-pre&&hook-out
- C. diagnose wad session list | grep hook=pre&&hook=out
- D. diagnose wad session list | grep "hook=pre"&"hook=out"

**Answer:** A

#### **NEW QUESTION 43**

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