

NSE4_FGT-7.2^{Q&As}

Fortinet NSE 4 - FortiOS 7.2

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QUESTION 1

An administrator has configured a strict RPF check on FortiGate. Which statement is true about the strict RPF check?

- A. The strict RPF check is run on the first sent and reply packet of any new session.
- B. Strict RPF checks the best route back to the source using the incoming interface.
- C. Strict RPF checks only for the existence of at least one active route back to the source using the incoming interface.
- D. Strict RPF allows packets back to sources with all active routes.

Correct Answer: B

Strict Reverse Path Forwarding (RPF) is a security feature that is used to detect and prevent IP spoofing attacks on a network. It works by checking the routing information for incoming packets to ensure that they are coming from the source address that is indicated in the packet's header. In strict RPF mode, the firewall will check the best route back to the source of the incoming packet using the incoming interface. If the packet's source address does not match the route back to the source, the packet is dropped. This helps to prevent attackers from spoofing their IP address and attempting to access the network.

Reference: <https://kb.fortinet.com/kb/documentLink.do?externalID=FD33955>

QUESTION 2

Refer to the exhibits.

Exhibit A shows a topology for a FortiGate HA cluster that performs proxy-based inspection on traffic. Exhibit B shows the HA configuration and the partial output of the get system ha status command.

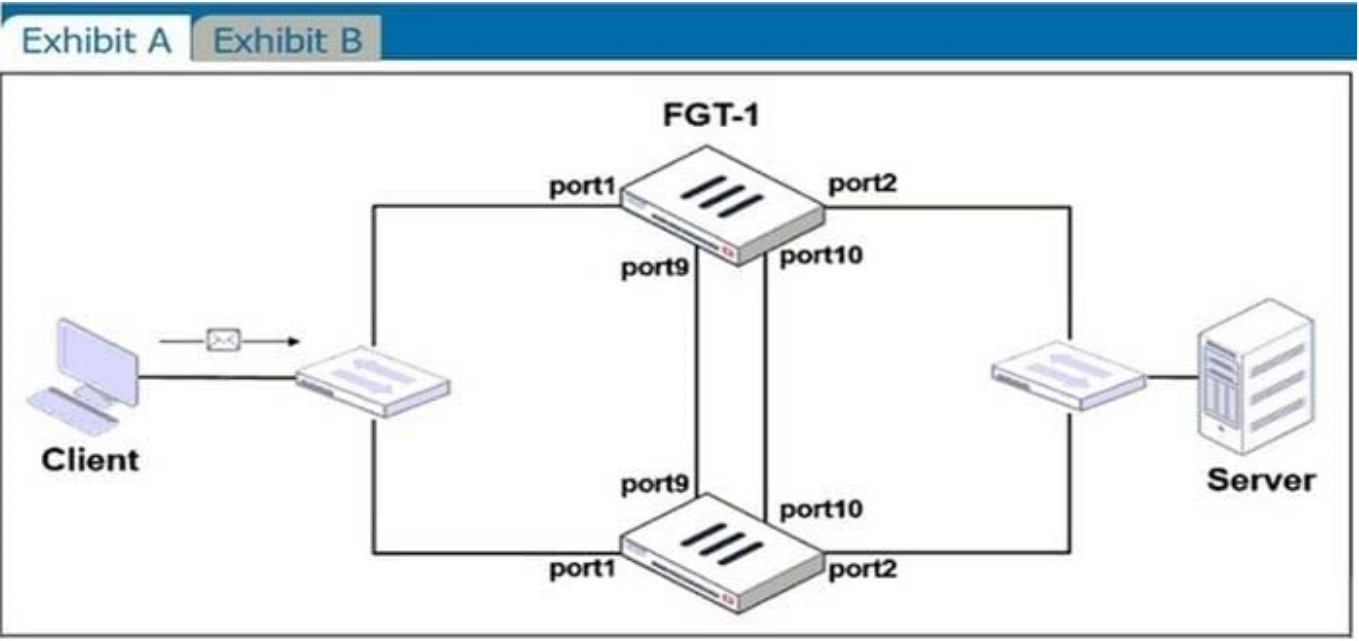


Exhibit A Exhibit B

```

set group-id 3
set group-name "NSE"
set mode a-a
set password *
set hbdev "port9" 50 "port10" 50
set session-pickup enable
set override disable
set monitor port3
end

# get system ha status
...
Primary      : FGT-2, FGVM010000065036, HA cluster index = 1
Secondary    : FGT-1, FGVM010000064692, HA cluster index = 0
number of vcluster: 1
vcluster 1: work 169.254.0.2
Primary: FGVM010000065036, HA operating index = 1
Secondary: FGVM010000064692, HA operating index = 0
    
```

Based on the exhibits, which two statements about the traffic passing through the cluster are true? (Choose two.)

- A. For non-load balanced connections, packets forwarded by the cluster to the server contain the virtual MAC address of port2 as source.
- B. The traffic sourced from the client and destined to the server is sent to FGT-1.
- C. The cluster can load balance ICMP connections to the secondary.
- D. For load balanced connections, the primary encapsulates TCP SYN packets before forwarding them to the secondary.

Correct Answer: AD

FortiGate Infrastructure 7.2 Study Guide (p.317 and p.320): "To forward traffic correctly, a FortiGate HA solution uses virtual MAC addresses." "The primary forwards the SYN packet to the selected secondary. (...) This is also known as MAC address rewrite. In addition, the primary encapsulates the packet in an Ethernet frame type 0x8891. The encapsulation is done only for the first packet of a load balanced session. The encapsulated packet includes the original packet plus session information that the secondary requires to process the traffic."

QUESTION 3

The IPS engine is used by which three security features? (Choose three.)

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

Correct Answer: ABC

FortiGate Security 7.2 Study Guide (p.385): "The IPS engine is responsible for most of the features shown in this lesson: IPS and protocol decoders. It's also responsible for application control, flow-based antivirus protection, web filtering, and email filtering."

QUESTION 4

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.

Correct Answer: BC

QUESTION 5

Which two statements about FortiGate FSSO agentless polling mode are true? (Choose two.)

- A. FortiGate uses the AD server as the collector agent.
- B. FortiGate uses the SMB protocol to read the event viewer logs from the DCs.
- C. FortiGate does not support workstation check .

D. FortiGate directs the collector agent to use a remote LDAP server.

Correct Answer: BC

You can deploy FSSO w/o installing an agent. FG polls the DCs directly, instead of receiving logon info indirectly from a collector agent.

Because FG collects all of the data itself, agentless polling mode requires greater system resources, and it doesn't scale as easily.

Agentless polling mode operates in a similar way to WinSecLog, but with only two event IDs: 4768 and 4769. Because there's no collector agent, FG uses the SMB protocol to read the event viewer logs from the DCs.

FG acts as a collector. It's responsible for polling on top of its normal FSSO tasks but does not have all the extra features, such as workstation checks, that are available with the external collector agent.

Reference: <https://kb.fortinet.com/kb/documentLink.do?externalID=FD47732> <https://community.fortinet.com/t5/FortiGate/Troubleshooting-Tip-How-to-troubleshoot-FSSO-agentless-polling/ta-p/214349>

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