



Fortinet

Exam Questions FCSS_EFW_AD-7.4

FCSS - Enterprise Firewall 7.4 Administrator

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NEW QUESTION 1

An administrator is setting up an ADVPN configuration and wants to ensure that peer IDs are not exposed during VPN establishment. Which protocol can the administrator use to enhance security?

- A. Use IKEv2, which encrypts peer IDs and prevents exposure.
- B. Opt for SSL VPN web mode because it does not use peer IDs at all.
- C. Choose IKEv1 aggressive mode because it simplifies peer identification.
- D. Stick with IKEv1 main mode because it offers better performance.

Answer: A

Explanation:

In ADVPN (Auto-Discovery VPN) configurations, security concerns include protecting peer IDs during VPN establishment. Peer IDs are exchanged in the IKE (Internet Key Exchange) negotiation phase, and their exposure could lead to privacy risks or targeted attacks. IKEv2 encrypts peer IDs, making it more secure compared to IKEv1, where peer IDs can be exposed in plaintext in aggressive mode. IKEv2 also provides better performance and flexibility while supporting dynamic tunnel establishment in ADVPN.

NEW QUESTION 2

Refer to the exhibit, which shows a physical topology and a traffic log.



The administrator is checking on FortiAnalyzer traffic from the device with IP address 10.1.10.1, located behind the FortiGate ISFW device. The firewall policy in on the ISFW device does not have UTM enabled and the administrator is surprised to see a log with the action Malware, as shown in the exhibit.

What are the two reasons FortiAnalyzer would display this log? (Choose two.)

- A. Security rating is enabled in ISFW.
- B. ISFW is in a Security Fabric environment.
- C. ISFW is not connected to FortiAnalyzer and must go through NGFW-1.
- D. The firewall policy in NGFW-1 has UTM enabled.

Answer: BD

Explanation:

From the exhibit, ISFW is part of a Security Fabric environment with NGFW-1 as the Fabric Root. In this architecture, FortiGate devices share security intelligence, including logs and detected threats.

ISFW is in a Security Fabric environment:

Security Fabric allows devices like ISFW to receive threat intelligence from NGFW-1, even if UTM is not enabled locally.

If NGFW-1 detects malware from IP 10.1.10.1 to 89.238.73.97, this information can be propagated to ISFW and FortiAnalyzer.

The firewall policy in NGFW-1 has UTM enabled:

Even though ISFW does not have UTM enabled, NGFW-1 (which sits between ISFW and the external network) does have UTM enabled and is scanning traffic. Since NGFW-1 detects malware in the session, it logs the event, which is then sent to FortiAnalyzer.

NEW QUESTION 3

An administrator must enable direct communication between multiple spokes in a company's network. Each spoke has more than one internet connection. The requirement is for the spokes to connect directly without passing through the hub, and for the links to automatically switch to the best available connection. How can this automatic detection and optimal link utilization between spokes be achieved?

- A. Set up OSPF routing over static VPN tunnels between spokes.
- B. Utilize ADVPN 2.0 to facilitate dynamic direct tunnels and automatic link optimization.
- C. Establish static VPN tunnels between spokes with predefined backup routes.
- D. Implement SD-WAN policies at the hub to manage spoke link quality.

Answer: B

Explanation:

ADVPN (Auto-Discovery VPN) 2.0 is the optimal solution for enabling direct spoke-to-spoke communication without passing through the hub, while also allowing automatic link selection based on quality metrics.

Dynamic Direct Tunnels:

ADVPN 2.0 allows spokes to establish direct IPsec tunnels dynamically based on traffic patterns, reducing latency and improving performance.

Unlike static VPNs, spokes do not need to pre-configure tunnels for each other.

Automatic Link Optimization:

ADVPN 2.0 monitors the quality of multiple internet connections on each spoke.

It automatically switches to the best available connection when the primary link degrades or fails.

This is achieved by dynamically adjusting BGP-based routing or leveraging SD-WAN integration.

NEW QUESTION 4

What is the initial step performed by FortiGate when handling the first packets of a session?

- A. Installation of the session key in the network processor (NP)
- B. Data encryption and decryption
- C. Security inspections such as ACL, HPE, and IP integrity header checking
- D. Offloading the packets directly to the content processor (CP)

Answer: C

Explanation:

When FortiGate processes the first packets of a session, it follows a sequence of steps to determine how the traffic should be handled before establishing a session. The initial step involves:

Access Control List (ACL) checks: Determines if the traffic should be allowed or blocked based on predefined security rules.

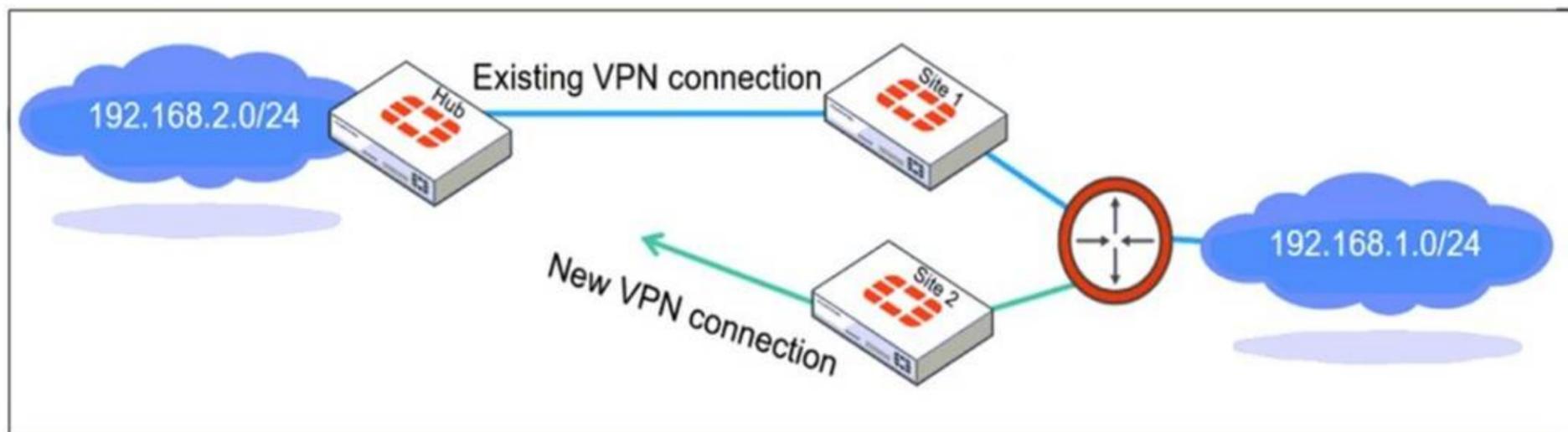
Hardware Packet Engine (HPE) inspections: Ensures that packet headers are valid and comply with protocol standards.

IP Integrity Header Checking: Verifies if the IP headers are intact and not malformed or spoofed.

Once these security inspections are completed and the session is validated, FortiGate then installs the session in hardware (if offloading is enabled) or processes it in software.

NEW QUESTION 5

Refer to the exhibit, which shows a network diagram showing the addition of site 2 with an overlapping network segment to the existing VPN IPsec connection between the hub and site 1.



Which IPsec phase 2 configuration must an administrator make on the FortiGate hub to enable equal-cost multi-path (ECMP) routing when multiple remote sites connect with overlapping subnets?

- A. Set route-overlap to either use-new or use-old
- B. Set net-device to ecmp
- C. Set single-source to enable
- D. Set route-overlap to allow

Answer: A

Explanation:

When multiple remote sites connect to the same hub using overlapping subnets, FortiGate needs to determine which route should be used for traffic forwarding. The route-overlap setting in IPsec Phase 2 allows FortiGate to handle this scenario by deciding whether to keep the existing route (use-old) or replace it with a new route (use-new).

In an ECMP (Equal-Cost Multi-Path) routing setup, both routes should be retained and balanced, but FortiGate does not support ECMP directly over overlapping routes in IPsec Phase 2. Instead, an administrator must decide which connection takes precedence using route-overlap settings.

NEW QUESTION 6

Refer to the exhibit.

A pre-run CLI template that is used in zero-touch provisioning (ZTP) and low-touch provisioning (LTP) with FortiManager is shown.

Template Groups	IPsec Tunnel	SD-WAN	System Templates	Static Route	CLI	Feature Visibility
<div style="display: flex; justify-content: space-between; align-items: center;"> + Create New Edit Delete Assign to Model Device More </div>						
<input type="checkbox"/>	Name	Type	Assigned to Device/Group	Variables		
Pre-Run CLI Template (4)						
<input checked="" type="checkbox"/>	Pre-CLI Template	CLI	0 Devices in Total	GW Hostname IP_port1 IP_port3 IP_port8		

The template is not assigned even though the configuration has already been installed on FortiGate. What is true about this scenario?

- A. The administrator did not assign the template correctly when adding the model device because pre-CLI templates remain permanently assigned to the firewall
- B. Pre-run CLI templates are automatically unassigned after their initial installation
- C. Pre-run CLI templates for ZTP and LTP must be unassigned manually after the first installation to avoid conflicting error objects when importing a policy package
- D. The administrator must use post-run CLI templates that are designed for ZTP and LTP

Answer: B

Explanation:

In FortiManager, pre-run CLI templates are used in Zero-Touch Provisioning (ZTP) and Low-Touch Provisioning (LTP) to configure a FortiGate device before it is fully managed by FortiManager. These templates apply configurations when a device is initially provisioned. Once the pre-run CLI template is executed, FortiManager automatically unassigns it from the device because it is not meant to persist like other policy configurations. This prevents conflicts and ensures that the FortiGate configuration is not repeatedly applied after the initial setup.

NEW QUESTION 7

Which two statements about IKEv2 are true if an administrator decides to implement IKEv2 in the VPN topology? (Choose two.)

- A. It includes stronger Diffie-Hellman (DH) groups, such as Elliptic Curve (ECP) groups.
- B. It supports interoperability with devices using IKEv1.
- C. It exchanges a minimum of two messages to establish a secure tunnel.
- D. It supports the extensible authentication protocol (EAP).

Answer: AD

Explanation:

IKEv2 (Internet Key Exchange version 2) is an improvement over IKEv1, offering enhanced security, efficiency, and flexibility in VPN configurations. It includes stronger Diffie-Hellman (DH) groups, such as Elliptic Curve (ECP) groups. IKEv2 supports stronger cryptographic algorithms, including Elliptic Curve Diffie-Hellman (ECDH) groups such as ECP256 and ECP384, providing improved security compared to IKEv1. It supports the extensible authentication protocol (EAP). IKEv2 natively supports EAP authentication, which allows integration with external authentication mechanisms such as RADIUS, certificates, and smart cards. This is particularly useful for remote access VPNs where user authentication must be flexible and secure.

NEW QUESTION 8

An administrator wants to scale the IBGP sessions and optimize the routing table in an IBGP network. Which parameter should the administrator configure?

- A. network-import-check
- B. ibgp-enforce-multihop
- C. neighbor-group
- D. route-reflector-client

Answer: D

Explanation:

In an IBGP (Internal BGP) network, all routers must be fully meshed, meaning every router must establish a BGP session with every other router in the same autonomous system (AS). This does not scale well in large networks due to the exponential increase in BGP sessions. To optimize and scale IBGP, Route Reflectors (RRs) are used. A Route Reflector (RR) reduces the number of IBGP peer connections by allowing a centralized router (RR) to redistribute IBGP routes to other IBGP peers (called clients). This eliminates the need for a full mesh, significantly reducing BGP session overhead. By configuring the route-reflector-client setting on IBGP peers, an administrator can: Scale IBGP sessions by reducing the number of direct BGP peer connections. Optimize the routing table by ensuring routes are efficiently propagated within the IBGP network. Eliminate the need for full mesh topology, making IBGP more manageable.

NEW QUESTION 9

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

```
FortiGate # get router info bgp neighbors
VRF 0 neighbor table:
BGP neighbor is 100.65.4.1, remote AS 65300, local AS 65200, external link
BGP version 4, remote router ID 0.0.0.0
BGP state = Idle
Not directly connected EBGP
Last read      , hold time is 180, keepalive interval is 60 seconds
Configured hold time is 180, keepalive interval is 60 seconds
Received 0 messages, 0 notifications, 0 in queue
Sent 0 messages, 0 notifications, 0 in queue
Route refresh request: received 0, sent 0
NLRI treated as withdraw: 0
Minimum time between advertisement runs is 30 seconds
Update source is Loopback
```

The administrator has configured BGP on FortiGate. The status of this new BGP configuration is shown in the exhibit. What configuration must the administrator consider next?

- A. Configure a static route to 100.65.4.1.
- B. Configure the local AS to 65300.
- C. Contact the remote peer administrator to enable BGP
- D. Enable ebgp-enforce-multihop.

Answer: D

Explanation:

From the BGP neighbor status output, the key issue is that BGP is stuck in the "Idle" state, meaning the FortiGate is unable to establish a BGP session with its peer 100.65.4.1 (Remote AS 65300).

The output also shows:

"Not directly connected EBGP" This means the BGP peer is not on the same subnet, requiring multihop BGP.

"Update source is Loopback" Since a loopback interface is used, FortiGate must be configured to allow BGP neighbors over multiple hops.

To resolve this issue, the administrator must enable `ebgp-enforce-multihop`, which allows BGP sessions to be established even when the neighbors are not directly connected.

NEW QUESTION 10

An administrator must standardize the deployment of FortiGate devices across branches with consistent interface roles and policy packages using FortiManager. What is the recommended best practice for interface assignment in this scenario?

- A. Enable metadata variables to use dynamic configurations in the standard interfaces of FortiManager.
- B. Use the Install On feature in the policy package to automatically assign different interfaces based on the branch.
- C. Create interfaces using device database scripts to use them on the same policy package of FortiGate devices.
- D. Create normalized interface types per-platform to automatically recognize device layer interfaces based on the FortiGate model and interface name.

Answer: A

Explanation:

When standardizing the deployment of FortiGate devices across branches using FortiManager, the best practice is to use metadata variables. This allows for dynamic interface configuration while maintaining a single, consistent policy package for all branches.

Metadata variables in FortiManager enable interface roles and configurations to be dynamically assigned based on the specific FortiGate device.

This ensures scalability and consistent security policy enforcement across all branches without manually adjusting interface settings for each device.

When a new branch FortiGate is deployed, metadata variables automatically map to the correct physical interfaces, reducing manual configuration errors.

NEW QUESTION 10

What action can be taken on a FortiGate to block traffic using IPS protocol decoders, focusing on network transmission patterns and application signatures?

- A. Use the DNS filter to block application signatures and protocol decoders.
- B. Use application control to limit non-URL-based software handling.
- C. Enable application detection-based SD-WAN rules.
- D. Configure a web filter profile in flow mode.

Answer: B

Explanation:

FortiGate's IPS protocol decoders analyze network transmission patterns and application signatures to identify and block malicious traffic. Application Control is the feature that allows FortiGate to detect, classify, and block applications based on their behavior and signatures, even when they do not rely on traditional URLs. Application Control works alongside IPS protocol decoders to inspect packet payloads and enforce security policies based on recognized application behaviors. It enables granular control over non-URL-based applications such as P2P traffic, VoIP, messaging apps, and other non-web-based protocols that IPS can identify through protocol decoders.

IPS and Application Control together can detect evasive or encrypted applications that might bypass traditional firewall rules.

NEW QUESTION 12

Refer to the exhibit, which shows the HA status of an active-passive cluster.

Status	Priority	Hostname	Virtual Domains	Role	System Uptime
Virtual cluster 1					
✓ Synchronized	150	FortiGate_A	Core1 root	Primary	4h 52m
✓ Synchronized	100	FortiGate_B	Core1 root	Secondary	4h 52m
Virtual cluster 2					
✓ Synchronized	150	FortiGate_A	Core2	Primary	
✓ Synchronized	128	FortiGate_B	Core2	Secondary	

An administrator wants FortiGate_B to handle the Core2 VDOM traffic. Which modification must the administrator apply to achieve this?

- A. The administrator must disable override on FortiGate_A.
- B. The administrator must change the priority from 100 to 160 for FortiGate_B.
- C. The administrator must change the load balancing method on FortiGate_B.
- D. The administrator must change the priority from 128 to 200 for FortiGate_B.

Answer: D

Explanation:

The exhibit shows an active-passive HA (high availability) cluster with two virtual clusters, where FortiGate_A is the primary device for both Core1 and Core2. If the goal is to have FortiGate_B take over Core2 traffic, its priority must be higher than FortiGate_A for Virtual Cluster 2.

Currently, FortiGate_A has a priority of 150 for Core2, while FortiGate_B has 128. Increasing FortiGate_B's priority to 200 ensures it becomes the primary for Virtual Cluster 2, taking over the Core2 VDOM traffic while keeping Core1 traffic on FortiGate_A.

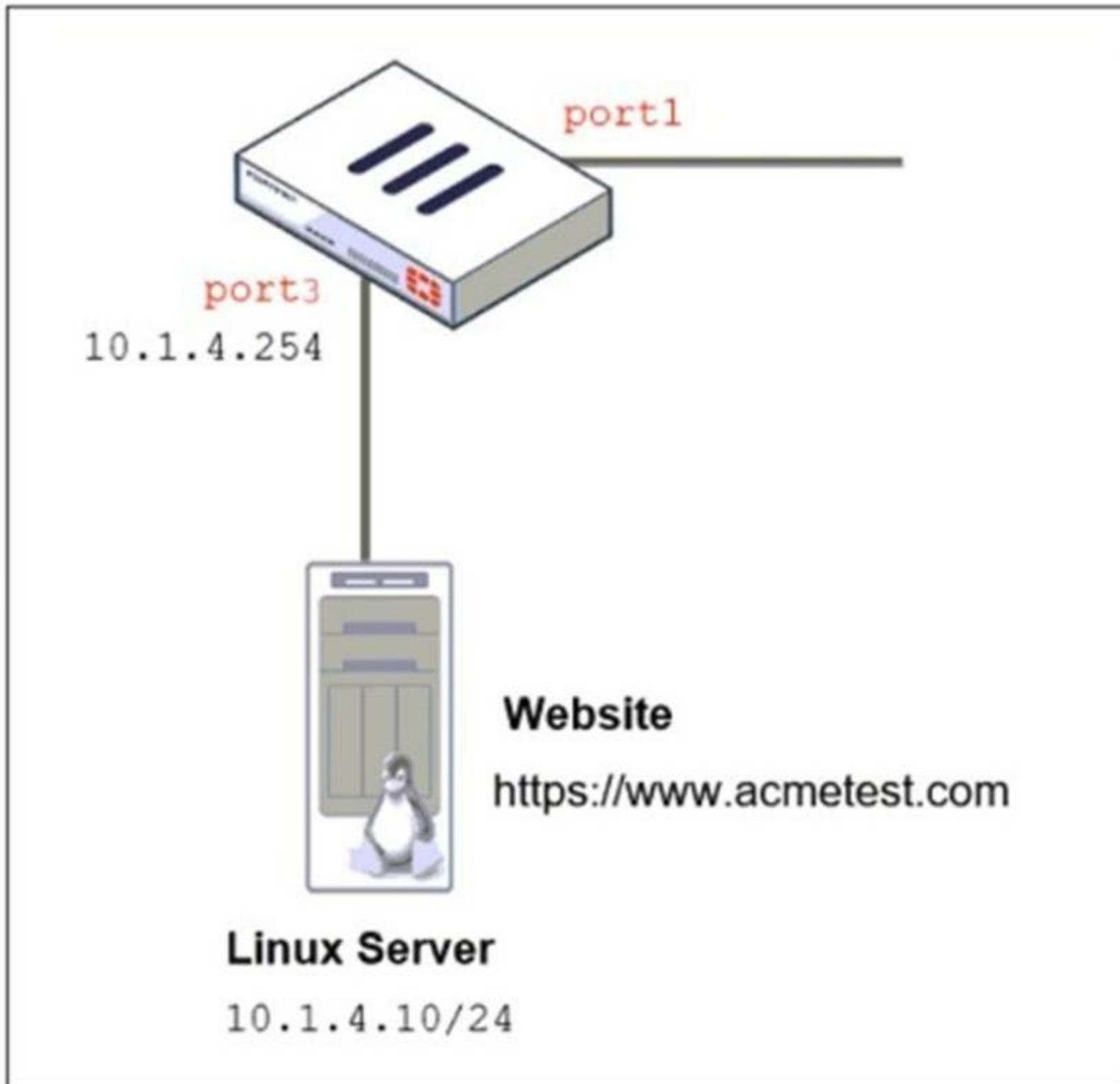
Disabling override would prevent forced failovers but wouldn't change the role distribution.

Adjusting the load-balancing method is irrelevant in an active-passive setup, as it only applies to active-active configurations.

NEW QUESTION 14

Refer to the exhibits. The exhibits show a network topology, a firewall policy, and an SSL/SSH inspection profile configuration.

Network Topology



Firewall policy on FortiGate

```
DCFW # sh firewall policy 3
config firewall policy
edit 3
set name "To Linux Servers"
set uuid bf77d59e-5513-51ef-147d-e35066c267e9
set srcintf "port1"
set dstintf "port3"
set action accept
set srcaddr "all"
set dstaddr "10.1.4."
set schedule "always"
set service "ALL"
set utm-status enable
set inspection-mode proxy
set ssl-ssh-profile "deep-inspection"
set ips-sensor "IPS Monitor"
set logtraffic all
next
end
```

SSL/SSH inspection profile

Edit SSL/SSH Inspection Profile

Name

Comments ↻ 34/255

SSL Inspection Options

Enable SSL inspection of Multiple Client Clients Connecting to Multiple Servers

Inspection method Full SSL Inspection

CA certificate ⚠ 📄 Download

Blocked certificates i Block View Blocked Certificates

Untrusted SSL certificates Allow Block Ignore View Trusted CAs List

Server certificate SNI check i Enable Strict Disable

Enforce SSL cipher compliance

Enforce SSL negotiation compliance

RPC over HTTPS

MAPI over HTTPS

Protocol Port Mapping

Inspect all ports

HTTPS	<input type="checkbox"/>	443
SMTS	<input checked="" type="checkbox"/>	465
POP3S	<input checked="" type="checkbox"/>	995
IMAPS	<input checked="" type="checkbox"/>	993
FTPS	<input checked="" type="checkbox"/>	990
DNS over TLS	<input type="checkbox"/>	853

Why is FortiGate unable to detect HTTPS attacks on firewall policy ID 3 targeting the Linux server?

- A. The administrator must set the policy to inspection mode to analyze the HTTPS packets as expected.
- B. The administrator must enable HTTPS in the protocol port mapping of the deep- inspection SSL/SSH inspection profile.
- C. The administrator must enable SSL inspection of the SSL server and upload the certificate of the Linux server website to the SSL/SSH inspection profile.
- D. The administrator must enable cipher suites in the SSL/SSH inspection profile to decrypt the message.

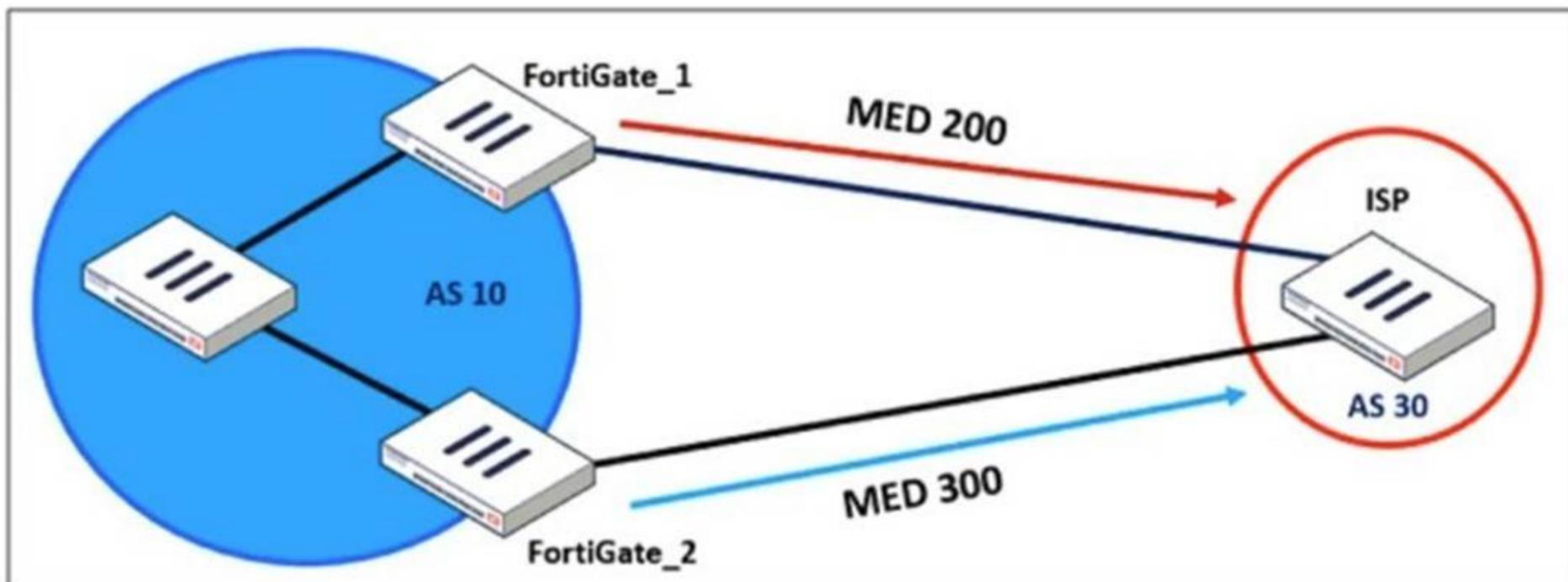
Answer: C

Explanation:

The FortiGate SSL/SSH inspection profile is configured for Full SSL Inspection, which is necessary to analyze encrypted HTTPS traffic. However, the firewall policy is protecting an SSL server (the Linux server hosting the website), and currently, the SSL/SSH profile only applies to client-side SSL inspection. To detect HTTPS-based attacks targeting the Linux server: FortiGate must act as an SSL intermediary to inspect encrypted traffic destined for the web server. The administrator must upload the SSL certificate of the Linux web server to FortiGate so that this server-side SSL inspection can decrypt incoming HTTPS traffic before analyzing it.

NEW QUESTION 18

Refer to the exhibit, which shows a network diagram.



An administrator would like to modify the MED value advertised from FortiGate_1 to a BGP neighbor in the autonomous system 30. What must the administrator configure on FortiGate_1 to implement this?

- A. route-map-out
- B. network-import-check
- C. prefix-list-out
- D. distribute-list-out

Answer: A

Explanation:

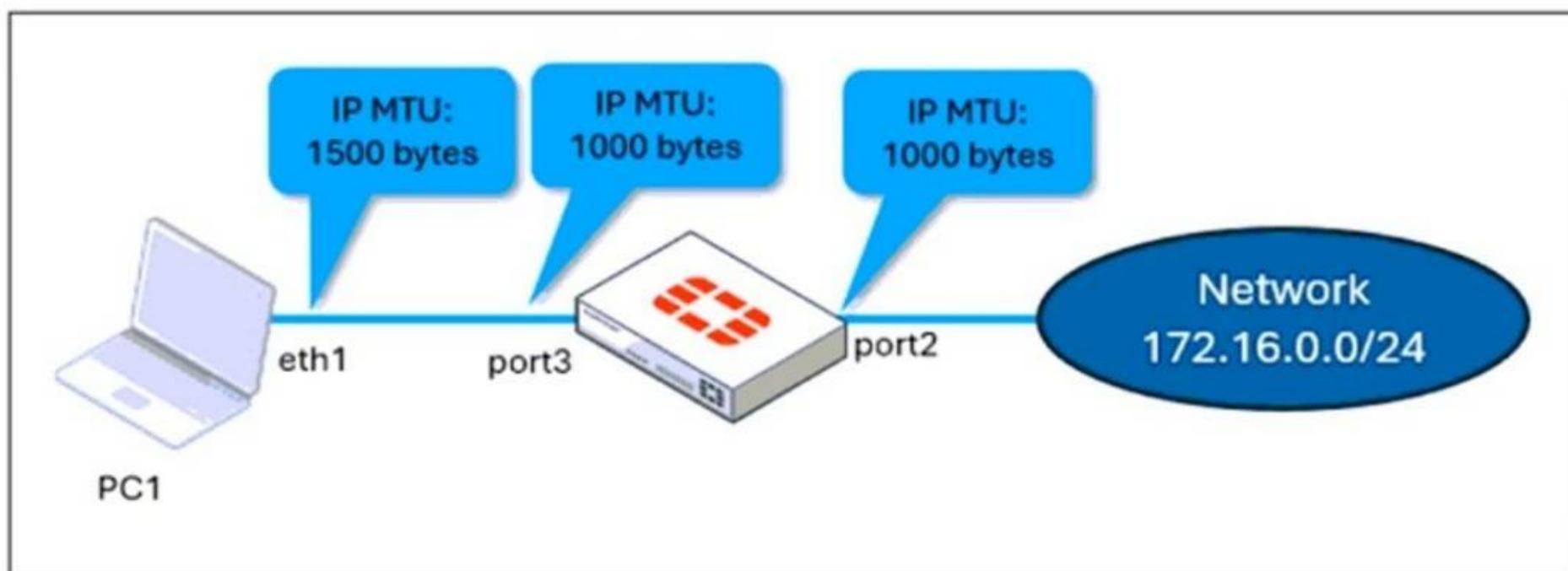
The Multi-Exit Discriminator (MED) is a BGP attribute used to influence the preferred path for incoming traffic from an external autonomous system (AS). The diagram shows that FortiGate_1 advertises MED 200, while FortiGate_2 advertises MED 300, meaning the ISP will prefer the route through FortiGate_1 because a lower MED is preferred in BGP.

To modify the MED value on FortiGate_1 for routes advertised to AS 30, the administrator must configure a route-map-out. A route map can match specific routes and set the MED value before sending them to the BGP neighbor.

NEW QUESTION 22

Refer to the exhibits.

Network topology



port 3 configuration on FortiGate

```
config system interface
edit "port3"
set vdom "root"
set ip 10.0.0.1 255.255.255.0
set allowaccess ping https ssh snmp http fgfm ftm
set type physical
set alias "LAN"
set snmp-index 3
set mtu-override enable
set mtu 1000
next
end
```

ping output

```
C:\Users\fortinet>ping 172.16.0.254 -f -l 1400

Pinging 172.16.0.254 with 1400 bytes of data:
Reply from 10.0.0.1: Packet needs to be fragmented but DF set.

Ping statistics for 172.16.0.254:
Packets: Sent = 4, Received = 1, Lost = 3 (75% loss),
```

with FortiGate interfaces set to an MTU of 1000 bytes, and the results of PC1 pinging server 172.16.0.254 are shown.

Why is the user in Windows PC1 unable to ping server 172.16.0.254 and is seeing the message: Packet needs to be fragmented but DF set?

- A. Option ip.flags.mf must be set to enable on FortiGate
- B. The user has to adjust the ping MTU to 1000 to succeed.
- C. Fragmented packets must be encrypted
- D. To connect any application successfully, the user must install the Fortinet_CA certificate in the Microsoft Management Console.
- E. FortiGate honors the do not fragment bit and the packets are dropped
- F. The user has to adjust the ping MTU to 972 to succeed.
- G. The user must trigger different traffic because path MTU discovery techniques do not recognize ICMP payloads.

Answer: C

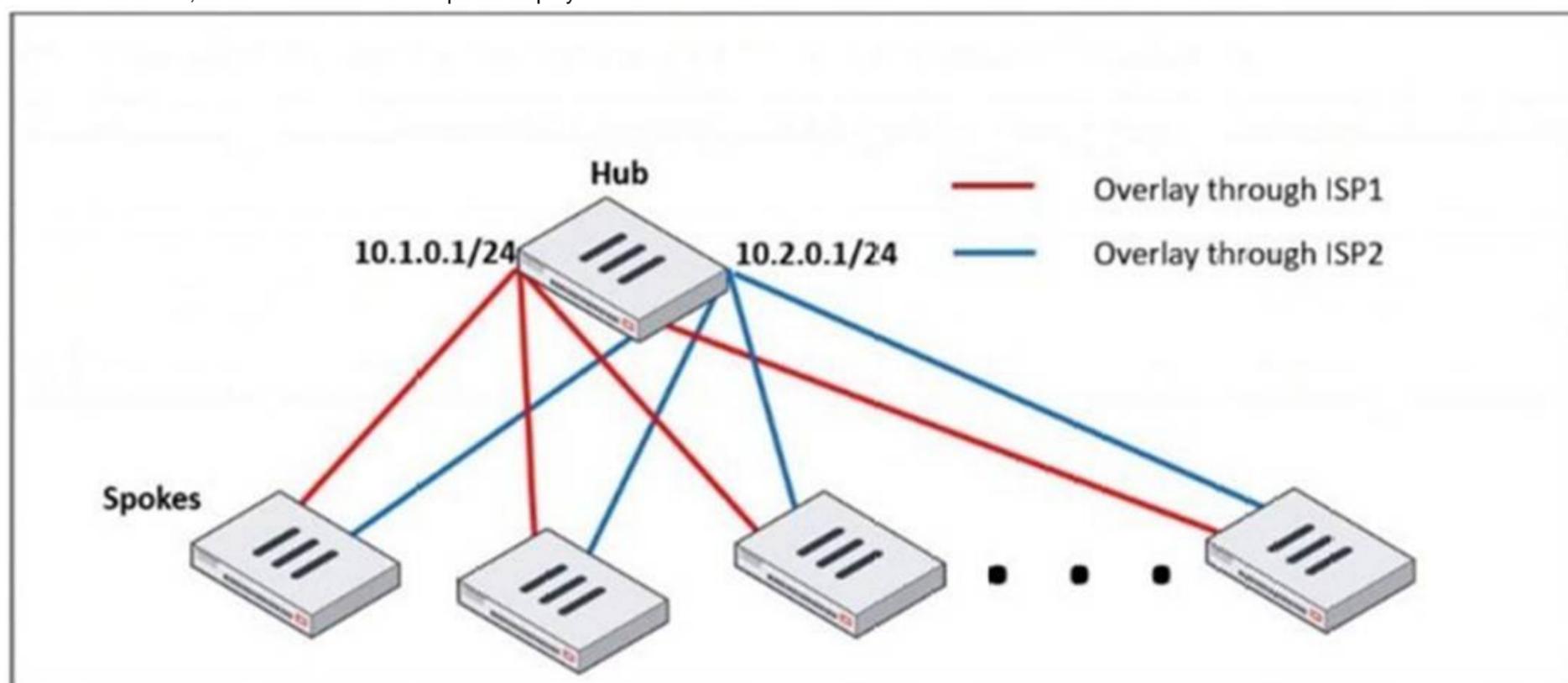
Explanation:

The issue occurs because FortiGate enforces the "do not fragment" (DF) bit in the packet, and the packet size exceeds the MTU of the network path. When the Windows PC1 (with an MTU of 1500 bytes) attempts to send a 1400-byte packet, the FortiGate interface (with an MTU of 1000 bytes) needs to fragment it. However, since the DF bit is set, FortiGate drops the packet instead of fragmenting it.

To resolve this, the user should adjust the ping packet size to fit within the path MTU. In this case, reducing the packet size to 972 bytes (1000 bytes MTU minus 28 bytes for the IP and ICMP headers) should allow successful transmission.

NEW QUESTION 26

Refer to the exhibit, which shows a hub and spokes deployment.



An administrator is deploying several spokes, including the BGP configuration for the spokes to connect to the hub. Which two commands allow the administrator to minimize the configuration? (Choose two.)

- A. neighbor-group
- B. route-reflector-client
- C. neighbor-range
- D. ibgp-enforce-multihop

Answer: AC

Explanation:

neighbor-group:

This command is used to group multiple BGP neighbors with the same configuration, reducing redundant configuration.

Instead of defining individual BGP settings for each spoke, the administrator can create a neighbor-group and apply the same policies, reducing manual work.

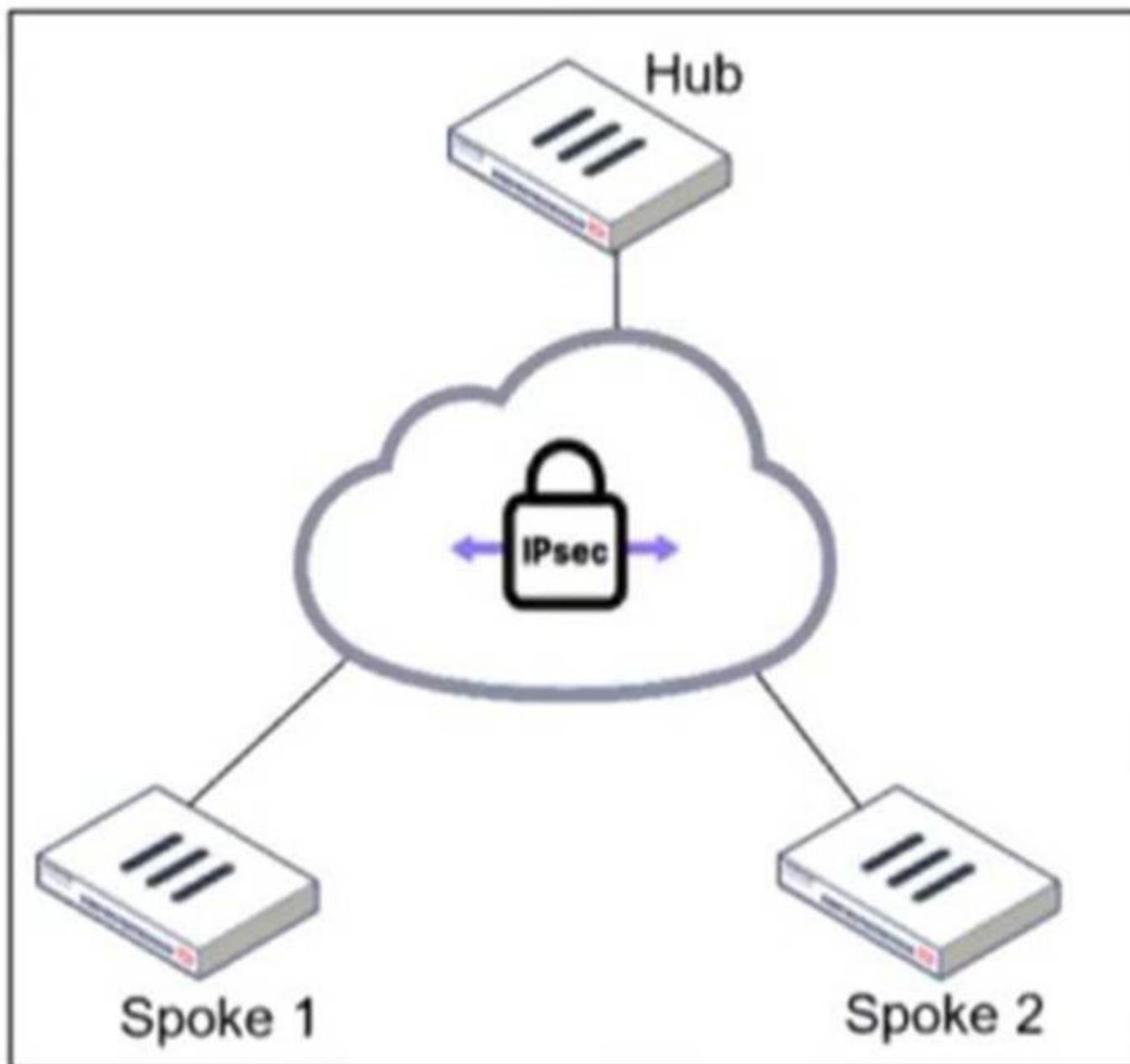
neighbor-range:

This command allows the configuration of a range of neighbor IPs dynamically, reducing the need to manually define each spoke neighbor.

It automatically adds BGP neighbors that match a given prefix, simplifying deployment.

NEW QUESTION 29

Refer to the exhibit.



An administrator is deploying a hub and spokes network and using OSPF as dynamic protocol. Which configuration is mandatory for neighbor adjacency?

- A. Set bfd enable in the router configuration
- B. Set network-type point-to-multipoint in the hub interface
- C. Set rfc1583-compatible enable in the router configuration
- D. Set virtual-link enable in the hub interface

Answer: B

Explanation:

In a hub-and-spoke topology using OSPF over IPsec VPNs, the point-to-multipoint network type is necessary to establish neighbor adjacencies between the hub and spokes. This network type ensures that OSPF operates correctly without requiring a designated router (DR) and allows dynamic routing updates across the IPsec tunnels.

NEW QUESTION 31

Refer to the exhibit, which contains the partial output of an OSPF command.

```
FortiGate # get router info ospf status
Routing Process "ospf 0" with ID 0.0.0.5
Process uptime is 0 minute
Process bound to VRF default
Conforms to RFC2328, and RFC1583Compatibility flag is enabled
Supports only single TOS(TOS0) routes
Supports opaque LSA
Do not support Restarting
This router is an ABR
```

An administrator is checking the OSPF status of a FortiGate device and receives the output shown in the exhibit.

What two conclusions can the administrator draw? (Choose two.)

- A. The FortiGate device is a backup designated router
- B. The FortiGate device is connected to multiple areas
- C. The FortiGate device injects external routing information
- D. The FortiGate device has OSPF ECMP enabled

Answer: BC

Explanation:

The output of the `get router info ospf status` command provides key information about the OSPF (Open Shortest Path First) configuration on the FortiGate device.

The FortiGate device is connected to multiple areas

The output states: "This router is an ABR"

ABR (Area Border Router) means the device is connected to multiple OSPF areas and maintains routing information between them.

This confirms that the FortiGate is not just in one area, but at least one backbone area (Area 0) and another OSPF area.

The FortiGate device injects external routing information

The output states: "Supports opaque LSA"

Opaque LSAs (Type 9, 10, and 11) are used in OSPF extensions, including those that support external route injection.

Typically, ABRs or ASBRs (Autonomous System Boundary Routers) inject external routes, allowing routes from other routing protocols (such as BGP or static routes) to be advertised into OSPF.

NEW QUESTION 33

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