## NSE7\_SDW-7.0<sup>Q&As</sup>

Fortinet NSE 7 - SD-WAN 7.0

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#### **QUESTION 1**

What are two reasons for using FortiManager to organize and manage the network for a group of FortiGate devices? (Choose two )

- A. It simplifies the deployment and administration of SD-WAN on managed FortiGate devices.
- B. It improves SD-WAN performance on the managed FortiGate devices.
- C. It sends probe signals as health checks to the beacon servers on behalf of FortiGate.
- D. It acts as a policy compliance entity to review all managed FortiGate devices.
- E. It reduces WAN usage on FortiGate devices by acting as a local FortiGuard server.

Correct Answer: AE

#### **QUESTION 2**

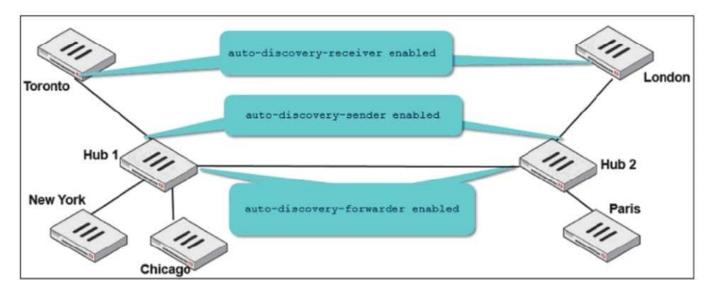
Which two statements about SD-WAN central management are true? (Choose two.)

- A. It does not allow you to monitor the status of SD-WAN members.
- B. It is enabled or disabled on a per-ADOM basis.
- C. It is enabled by default.
- D. It uses templates to configure SD-WAN on managed devices.

Correct Answer: BD

#### **QUESTION 3**

Refer to the exhibit.



Two hub-and-spoke groups are connected through a site-to-site IPsec VPN between Hub 1 and Hub 2. The administrator configured ADVPN on both hub-and-spoke groups.

Which two outcomes are expected if a user in Toronto sends traffic to London? (Choose two.)

A. London generates an IKE information message that contains the Toronto public IP address.

B. Traffic from Toronto to London triggers the dynamic negotiation of a direct site-to-site VPN.

C. Toronto needs to establish a site-to-site tunnel with Hub 2 to bypass Hub 1.

D. The first packets from Toronto to London are routed through Hub 1 then to Hub 2.

Correct Answer: BD

#### **QUESTION 4**

Refer to the exhibits. Exhibit A:

ID	Name	Source	Destination	Criteria	Members
🖃 IPv4 🕄					
1	Google.ICMP	🚍 all	G Google-ICMP	Latency	port1
2	Vimeo	🔳 all	Vimeo		🗎 port2 🛇
3	All_Access_Rules	💷 all	🔳 all		🔳 port1 🛇

Exhibit B:

2 🛓 💿 Add Filter						
Date/Time	Source	Destination	Application Name	Result	Policy	Destination Interface
2020/10/15 11:12:27	10.0.1.10	si 151.101.250.109 (i.vimeocdn.com)	Vimeo	✓ UTM Allowed	Internet Access (1)	m port2
2020/10/15 11:12:22	10.0.1.10	s4.120.15.67 (fresnel-events.vimeocdn.com)	Vimeo	✓ 2.00 kB / 4.33 kB	Internet Access (1)	🖻 port1
2020/10/15 11:12:20	10.0.1.10	172.217.13.227 (ocsp.pki.goog)	2 OCSP	✓ 1.28 kB / 1.49 kB	Internet Access (1)	m port1
2020/10/15 11:12:07	10.0.1.10	23.47.205.151 (detectportal.firefox.com)	HTTP.BROWSER_Firefox	✔ 1.44 kB / 1.55 kB	Internet Access (1)	🖹 port1
2020/10/15 11:12:07	10.0.1.10	si 23.47.205.151 (detectportal.firefox.com)	HTTP.BROWSER_Firefox	✔ 1.43 kB / 1.60 kB	Internet Access (1)	🗎 port1
2020/10/15 11:12:04	10.0.1.10	99.84.221.62 (snippets.cdn.mozilla.net)	2 HTTPS.BROWSER	✓ 2.08 kB / 13.44 kB	Internet Access (1)	m port1

Exhibit A shows the SD-WAN rules and exhibit B shows the traffic logs. The SD-WAN traffic logs reflect how FortiGate distributes traffic. Based on the exhibits, what are two expected behaviors when FortiGate processes SD-WAN traffic? (Choose two.)

A. The first Vimeo session may not match the Vimeo SD-WAN rule because the session is used for the application learning phase.

B. The implicit rule overrides all other rules because parameters widely cover sources and destinations.

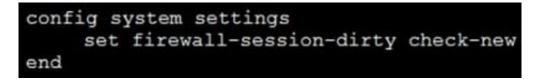
C. The Vimeo SD-WAN rule steers Vimeo application traffic among all SD-WAN member interfaces.

D. SD-WAN rules are evaluated in the same way as firewall policies: from top to bottom.

Correct Answer: AD

#### **QUESTION 5**

Refer to the exhibit



Based on the exhibit, which two statements about existing sessions on FortiGate after a firewall policy change, are true?(Choose two.)

- A. The old sessions terminate after a policy change
- B. Existing sessions remain unchanged after a policy change
- C. All sessions are flushed by FortiGate after a policy change
- D. FortiGate re-evaluates new packets after a policy change

Correct Answer: BD

#### **QUESTION 6**

Refer to exhibits. Exhibit A.

Check interval	500	ms
Failures before inactive ()	3	
Restore link after ()	2	check(s
Restore link after 0		
Actions when Inactive		

Exhibit B.

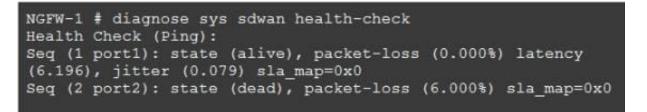


Exhibit A, which shows the SD-WAN performance SLA and exhibit B shows the health of the participating SD-WAN members. Based on the exhibits, which statement is correct?

A. The dead member interface stays unavailable until an administrator manually brings the interface back.

- B. The SLA state of port2 has exceeded three consecutive unanswered requests from the SLA server.
- C. Static routes using port2 are active in the routing table.
- D. FortiGate has not received three consecutive requests from the SLA server configured for port2.

Correct Answer: D

#### **QUESTION 7**

Which two statements about SD-WAN central management are true? (Choose two.)

- A. The objects are saved in the ADOM common object database.
- B. It does not support meta fields.
- C. It uses templates to configure SD-WAN on managed devices.

D. It supports normalized interfaces for SD-WAN member configuration.

Correct Answer: AC

Normalized interfaces are not supported for SD-WAN templates. You can create multiple SD-WAN zones and add interface members to the SD-WAN zones. You must bind the interface members by name to physical interfaces or VPN interfaces. https://docs.fortinet.com/document/fortigate/7.0.0/sd-wan-new-features/794804/new-sd-wan-template-fmg

#### **QUESTION 8**

Refer to the exhibit.

FortiGate # diagnose firewall s	shaper	per-ip-shaper	list
name FTP_5M			
maximum-bandwidth 625 KB/sec			
maximum-concurrent-session 5			
tos ff/ff			
packets dropped 65			
bytes dropped 81040			
addr=10.1.0.1 status: bps=0 ses=	=1		
addr=10.1.0.100 status: bps=0 se	es=1		
addr=10.1.10.1 status: bps=1656	ses=3		

Which are two expected behaviors of the traffic that matches the traffic shaper? (Choose two.)

A. The traffic shaper limits the bandwidth of each source IP address to a maximum of 625 KB/sec.

B. The number of simultaneous connections among all source IP addresses can exceed 5 connections.

C. The number of simultaneous connections allowed for each source IP address can exceed 5 connections.

D. The traffic shaper limits the combined bandwidth of all connections to a maximum of 5 MB/sec.

Correct Answer: AB

#### **QUESTION 9**

Refer to the exhibits. Exhibit A Exhibit B

Edit Performance SLA						
Name	Level3	DNS				
IP Version	IPv4	IPv6				
Probe Mode	Active	Passiv	e	Prefer Passive		
Protocol	Ping	TCP ECH	10	UDP ECHO	HTTP	TW
Server	4.2.2	.1				
	4.2.2	.2				
Participants	All SE	-WAN M	emb	ers Specify		
	Q.					
	po	rt1				
	👿 po	rt2			28	intries
Enable Probe Packets						
SLA Targets 🚯						
	+ Ad	d Target				
Link Status						
Interval	500	\$	М	lilliseconds		
Failure Before Inactive	3	0	(п	nax 3600)		
Restore Link After	2	0	(n	nax 3600)		
Action When Inactive						
Update Static Route						
Cascade Interfaces						

```
branch1 fgt # diagnose sys sdwan member | grep port
Member(1): interface: port1, flags=0x0 , gateway: 192.2.0.2, priority: 0 1024, weight: 0
Member(2): interface: port2, flags=0x0 , gateway: 192.2.0.10, priority: 0 1024, weight: 0
branch1_fgt # get router info routing-table all | grep port
        0.0.0.0/0 [1/0] via 192.2.0.2, port1
S*
                  [1/0] via 192.2.0.10, port2
S
        8.8.8.8/32 [10/0] via 192.2.0.11, port2
С
        10.0.1.0/24 is directly connected, port5
        172.16.0.0/16 [10/0] via 172.16.0.2, port4
S
C
        172.16.0.0/29 is directly connected, port4
        192.2.0.0/29 is directly connected, port1
С
С
        192.2.0.8/29 is directly connected, port2
        192.168.0.0/24 is directly connected, port10
C
branch1 fgt # diagnose sys sdwan health-check status Level3 DNS
Health Check(Level3 DNS):
Seq(1 port1): state(alive), packet-loss(0.000%) latency(1.919), jitter(0.137), bandwidth-
up(10238), bandwidth-dw(10238), bandwidth-bi(20476) sla map=0x0
Seq(2 port2): state(alive), packet-loss(0.000%) latency(1.509), jitter(0.101), bandwidth-
up(10238), bandwidth-dw(10238), bandwidth-bi(20476) sla map=0x0
```

Exhibit A shows the SD-WAN performance SLA and exhibit B shows the SD-WAN member status, the routing table, and the performance SLA status. If port2 is detected dead by FortiGate, what is the expected behavior?

A. Port2 becomes alive after three successful probes are detected.

B. FortiGate removes all static routes for port2.

C. The administrator manually restores the static routes for port2, if port2 becomes alive.

D. Host 8.8.8.8 is reachable through port1 and port2.

Correct Answer: B

This is due to Update static route is enable which removes the static route entry referencing the interface if the interface is dead

#### **QUESTION 10**

Refer to the exhibit.

```
config system settings
    set firewall-session-dirty check-new
end
```

Based on the exhibit, which two actions does FortiGate perform on sessions after a firewall policy change? (Choose two.)

A. FortiGate flushes all sessions.

- B. FortiGate terminates the old sessions.
- C. FortiGate does not change existing sessions.

D. FortiGate evaluates new sessions.

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Correct Answer: CD

FortiGate not to flag existing impacted session as dirty by setting firewall-session-dirty to check new. The results is that FortiGate evaluates only new session against the new firewall policy.

#### **QUESTION 11**

Which two reasons make forward error correction (FEC) ideal to enable in a phase one VPN interface? (Choose two )

- A. FEC transmits the original payload in full to recover the error in transmission.
- B. FEC improves reliability which overcomes adverse WAN conditions such as noisy links.
- C. FEC is useful to increase speed at which traffic is routed through IPsec tunnels.
- D. FEC transmits additional packets as redundant data to the remote device.
- E. FEC reduces the stress on the remote device jitter buffer to reconstruct packet loss

Correct Answer: BD

#### **QUESTION 12**

Which two tasks about using central VPN management are true? (Choose two.)

- A. You can configure full mesh, star, and dial-up VPN topologies.
- B. FortiManager installs VPN settings on both managed and external gateways.
- C. You configure VPN communities to define common IPsec settings shared by all VPN gateways.
- D. You must enable VPN zones for SD-WAN deployments.

Correct Answer: AC

#### **QUESTION 13**

Refer to the exhibit.

set status	enable
set load-ba	lance-mode source-ip-based
config memb	ers
edit 1	
	<pre>set interface "port1"</pre>
	set gateway 100.64.1.254
	set source 100.64.1.1
	set cost 15
next	
edit 2	
	<pre>set interface "port2"</pre>
	set gateway 100.64.2.254
	set priority 10
next	
end	
nd	

Based on output shown in the exhibit, which two commands can be used by SD-WAN rules? (Choose two.)

- A. set cost 15.
- B. set source 100.64.1.1.
- C. set priority 10.
- D. set load-balance-mode source-ip-based.

Correct Answer: AC

#### **QUESTION 14**

Which diagnostic command can you use to show the member utilization statistics measured by performance SLAs for the last 10 minutes?

- A. diagnose sys sdwan intf-sla-log
- B. diagnose sys sdwan health-check
- C. diagnose sys sdwan log
- D. diagnose sys sdwan sla-log

Correct Answer: A

#### **QUESTION 15**

Refer to the exhibit.

FortiGate # diagnose firewall shaper per-ip-shaper list name FTP\_5M maximum-bandwidth 625 KB/sec maximum-concurrent-session 5 tos ff/ff packets dropped 65 bytes dropped 81040 addr=10.1.0.1 status: bps=0 ses=1 addr=10.1.0.100 status: bps=0 ses=1 addr=10.1.10.1 status: bps=1656 ses=3

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

- A. The debug output shows per-IP shaper values and real-time readings.
- B. This traffic shaper drops traffic that exceeds the set limits.
- C. Traffic being controlled by the traffic shaper is under 1 Kbps.
- D. FortiGate provides statistics and reading based on historical traffic logs.

Correct Answer: AB

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