

Fortinet

Exam Questions NSE7_SDW-7.0

Fortinet NSE 7 - SD-WAN 7.0



NEW QUESTION 1

Refer to the exhibits.

Exhibit A

```
config duplication
edit 1
    set srcaddr "10.0.1.0/24"
    set dstaddr "10.1.0.0/24"
    set srcintf "port5"
    set dstintf "overlay"
    set service "ALL"
    set packet-duplication force
next
end

branch1_fgt # diagnose sys sdwan zone
Zone SASE index=2
    members(0):
Zone overlay index=4
    members(3): 19(T_INET_0_0) 20(T_INET_1_0) 21(T_MPLS_0)
Zone underlay index=3
    members(2): 3(port1) 4(port2)
Zone virtual-wan-link index=1
    members(0):

1.274665 port5 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275788 T_INET_0_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275790 T_INET_1_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275801 T_MPLS_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.278365 T_INET_1_0 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
1.278553 port5 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit B

```
3.874431 T_INET_1_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.874630 port5 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.874895 T_INET_0_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.875125 T_MPLS_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.875054 port5 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
3.875308 T_INET_1_0 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit A shows the packet duplication rule configuration, the SD-WAN zone status output, and the sniffer output on FortiGate acting as the sender. Exhibit B shows the sniffer output on a FortiGate acting as the receiver.

The administrator configured packet duplication on both FortiGate devices. The sniffer output on the sender FortiGate shows that FortiGate forwards an ICMP echo request packet over three overlays, but it only receives one reply packet through T_INET_1_0.

Based on the output shown in the exhibits, which two reasons can cause the observed behavior? (Choose two.)

- A. On the receiver FortiGate, packet-de-duplication is enabled.
- B. The ICMP echo request packets sent over T_INET_0_0 and T_MPLS_0 were dropped along the way.
- C. The ICMP echo request packets received over T_INET_0_0 and T_MPLS_0 were offloaded to NPU.
- D. On the sender FortiGate, duplication-max-num is set to 3.

Answer: AD

NEW QUESTION 2

Refer to the exhibit.

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

- A. The number of simultaneous connections among all source IP addresses cannot exceed five connections.
- B. The traffic shaper limits the combined bandwidth of all connections to a maximum of 5 MB/sec.
- C. The number of simultaneous connections allowed for each source IP address cannot exceed five connections.
- D. The traffic shaper limits the bandwidth of each source IP address to a maximum of 625 KB/sec.

Answer: CD

NEW QUESTION 3

What does enabling the exchange-interface-ip setting enable FortiGate devices to exchange?

- A. The gateway address of their IPsec interfaces
- B. The tunnel ID of their IPsec interfaces
- C. The IP address of their IPsec interfaces
- D. The name of their IPsec interfaces

Answer: C

NEW QUESTION 4

What is a benefit of using application steering in SD-WAN?

- A. The traffic always skips the regular policy routes.
- B. You steer traffic based on the detected application.
- C. You do not need to enable SSL inspection.
- D. You do not need to configure firewall policies that accept the SD-WAN traffic.

Answer: B

NEW QUESTION 5

Which are three key routing principles in SD-WAN? (Choose three.)

- A. FortiGate performs route lookups for new sessions only.
- B. Regular policy routes have precedence over SD-WAN rules.
- C. SD-WAN rules have precedence over ISDB routes.
- D. By default, SD-WAN members are skipped if they do not have a valid route to the destination.
- E. By default, SD-WAN rules are skipped if the best route to the destination is not an SD-WAN member.

Answer: BDE

NEW QUESTION 6

Which two statements are correct when traffic matches the implicit SD-WAN rule? (Choose two.)

- A. The sdwan_service_id flag in the session information is 0.
- B. All SD-WAN rules have the default setting enabled.
- C. Traffic does not match any of the entries in the policy route table.
- D. Traffic is load balanced using the algorithm set for the v4-ecmp-mode setting.

Answer: AC

Explanation:

sdwan_service_id is 0 = match SD-WAN implicit rule, study guide 7.0 page 120, 7.2 page 149 SD-WAN rules internally are interpreted as a Policy route, so when the traffic doesn't match with any policy route, it will be flowing by implicit policy.

NEW QUESTION 7

Which two settings can you configure to speed up routing convergence in BGP? (Choose two.)

- A. update-source
- B. set-route-tag
- C. holdtime-timer
- D. link-down-failover

Answer: CD

NEW QUESTION 8

Refer to the exhibits.
Exhibit A

[-] Network Properties	
[-] Service	Critical-DIA
[-] Identity	
[-] Device ID	FGVM01TM22000077
[-] Device Name	branch1_fgt
[-] Type	
[-] Sub Type	sdwan
[-] Type	event
[-] Alerts	
[-] Level	notice
[-] General	
[-] Log Description	SDWAN status
[-] Log ID	0113022923
[-] Message	Service prioritized by performance metric will be redirected in sequence order.
[-] Sequence Number	2,1
[-] Virtual Domain	root
[-] Others	
[-] Date/Time	23:57:29
[-] Destination End User ID	3
[-] Destination Endpoint ID	3
[-] Device Time	2022-03-04 14:57:27
[-] Event Time	1646434647595788893
[-] Event Type	Service
[-] Metric	latency
[-] Service ID	1
[-] Time Stamp	2022-03-04 23:57:29
[-] Time Zone	-0800
[-] UEBA Endpoint ID	3
[-] UEBA User ID	3
[-] logger	700030237

Exhibit B

branch1_fgt # diagnose sys sdwan member
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
config service
edit 1
set name "Critical-DIA"
set mode priority
set src "LAN-net"
set internet-service enable
set internet-service-app-ctrl 16354 41468 16920
set health-check "Level3_DNS"
set priority-members 1 2
next
end

Exhibit A shows an SD-WAN event log and exhibit B shows the member status and the SD-WAN rule configuration. Based on the exhibits, which two statements are correct? (Choose two.)

- A. FortiGate updated the outgoing interface list on the rule so it prefers port2.
- B. Port2 has the highest member priority.
- C. Port2 has a lower latency than port1.
- D. SD-WAN rule ID 1 is set to lowest cost (SLA) mode.

Answer: AC

NEW QUESTION 9

Which two statements about the SD-WAN zone configuration are true? (Choose two.)

- A. The service-sla-tie-break setting enables you to configure preferred member selection based on the best route to the destination.
- B. You can delete the default zones.
- C. The default zones are virtual-wan-link and SASE.
- D. An SD-WAN member can belong to two or more zones.

Answer: AC

NEW QUESTION 10

Refer to the exhibit.


```
branch1_fgt # diagnose firewall proute list
list route policy info(vf=root):

id=1 dscp_tag=0xff 0xff flags=0x0 tos=0x00 tos_mask=0x00 protocol=17 sport=0-65535 iif=7
dport=53 path(1) oif=3(port1)
source wildcard(1): 0.0.0.0/0.0.0.0
destination wildcard(1): 4.2.2.1/255.255.255.255
hit_count=0 last_used=2022-03-25 10:53:26

id=2131165185(0x7f070001) vwl_service=1(Critical-DIA) vwl_mbr_seq=1 2 dscp_tag=0xff 0xff
flags=0x0 tos=0x00 tos_mask=0x00 protocol=0 sport=0-65535 iif=0 dport=1-65535 path(2)
oif=3(port1) oif=4(port2)
source(1): 10.0.1.0-10.0.1.255
destination wildcard(1): 0.0.0.0/0.0.0.0
internet service(3): GoToMeeting(4294836966,0,0,0, 16354)
Microsoft.Office.365.Portals(4294837474,0,0,0, 41468) Salesforce(4294837976,0,0,0, 16920)
hit_count=0 last_used=2022-03-24 12:18:16

id=2131165186(0x7f070002) vwl_service=2(Non-Critical-DIA) vwl_mbr_seq=2 dscp_tag=0xff 0xff
flags=0x0 tos=0x00 tos_mask=0x00 protocol=0 sport=0-65535 iif=0 dport=1-65535
path(1) oif=4(port2)
source(1): 10.0.1.0-10.0.1.255
destination wildcard(1): 0.0.0.0/0.0.0.0
internet service(2): Facebook(4294836806,0,0,0, 15832) Twitter(4294838278,0,0,0, 16001)
hit_count=0 last_used=2022-03-24 12:18:16

id=2131165187(0x7f070003) vwl_service=3(all_rules) vwl_mbr_seq=1 dscp_tag=0xff 0xff
flags=0x0 tos=0x00 tos_mask=0x00 protocol=0 sport=0-65535 iif=0 dport=1-65535 path(1)
oif=3(port1)
source(1): 0.0.0.0-255.255.255.255
destination(1): 0.0.0.0-255.255.255.255
hit_count=0 last_used=2022-03-25 10:58:12
```

Based on the output, which two conclusions are true? (Choose two.)

- A. There is more than one SD-WAN rule configured.
- B. The SD-WAN rules take precedence over regular policy routes.
- C. The all_rules rule represents the implicit SD-WAN rule.
- D. Entry 1(id=1) is a regular policy route.

Answer: AD

NEW QUESTION 10

Refer to the exhibit.

```
config system sdwan
    set fail-detect enable
    set fail-alert-interfaces "port5"
    config health-check
        edit "Level3_DNS"
            set update-cascade-interface enable
            set members 1 2
        next
        edit "HQ"
            set update-cascade-interface enable
            set members 3
        next
    end
end
```

Based on the exhibit, which action does FortiGate take?

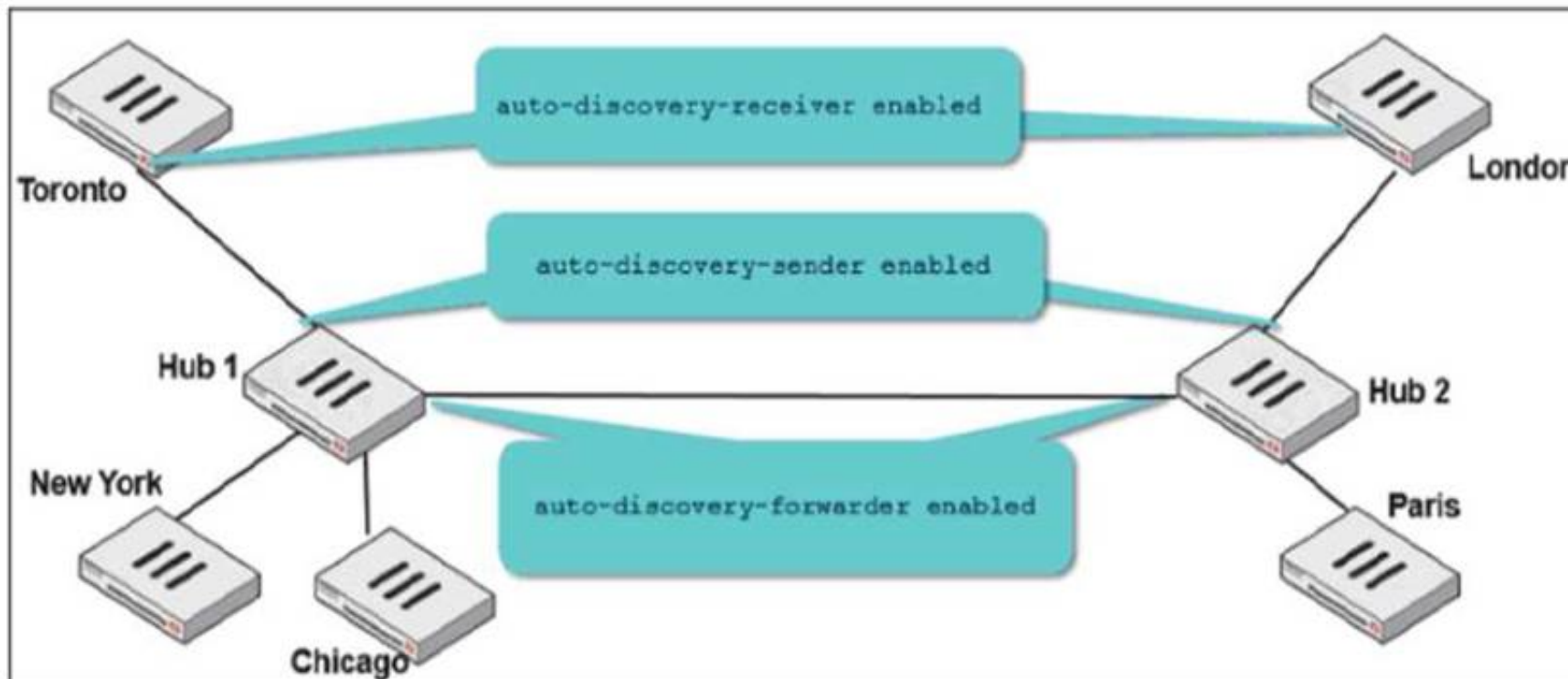
- A. FortiGate bounces port5 after it detects all SD-WAN members as dead.
- B. FortiGate fails over to the secondary device after it detects all SD-WAN members as dead.
- C. FortiGate brings up port5 after it detects all SD-WAN members as alive.
- D. FortiGate brings down port5 after it detects all SD-WAN members as dead.

Answer: B

NEW QUESTION 12

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.

Answer: BD

NEW QUESTION 15

Refer to the exhibit.

```
config firewall policy
  edit 1
    set anti-replay disable
  next
end
```

In a dual-hub hub-and-spoke SD-WAN deployment, which is a benefit of disabling the anti-replay setting on the hubs?

- A. It instructs the hub to disable the reordering of TCP packets on behalf of the receiver, to improve performance.
- B. It instructs the hub to disable TCP sequence number check, which is required for TCP sessions originated from spokes to fail over back and forth between the hubs.
- C. It instructs the hub to not check the ESP sequence numbers on IPsec traffic, to improve performance.
- D. It instructs the hub to skip content inspection on TCP traffic, to improve performance.

Answer: B

NEW QUESTION 16

Which SD-WAN setting enables FortiGate to delay the recovery of ADVPN shortcuts?

- A. hold-down-time
- B. link-down-failover
- C. auto-discovery-shortcuts
- D. idle-timeout

Answer: A

NEW QUESTION 19

Which three matching traffic criteria are available in SD-WAN rules? (Choose three.)

- A. Type of physical link connection
- B. Internet service database (ISDB) address object
- C. Source and destination IP address
- D. URL categories
- E. Application signatures

Answer: BCE

NEW QUESTION 21

Refer to the exhibit.

```
id=20085 trace_id=847 func=print_pkt_detail line=5428 msg="vd-root:0 received a
packet(proto=6, 10.1.10.1:33920->74.125.195.93:443) from port3. flag [.], seq
2018554516, ack 4141536963, win 2238"
id=20085 trace_id=847 func=resolve_ip_tuple_fast line=5508 msg="Find an existing
session, id-000008c1, original direction"
id=20085 trace_id=847 func=shaper handler line=821 msg="exceeded shaper limit, drop"
```

Which conclusion about the packet debug flow output is correct?

- A. The original traffic exceeded the maximum packets per second of the outgoing interface, and the packet was dropped.
- B. The reply traffic exceeded the maximum bandwidth configured in the traffic shaper, and the packet was dropped.
- C. The original traffic exceeded the maximum bandwidth of the outgoing interface, and the packet was dropped.
- D. The original traffic exceeded the maximum bandwidth configured in the traffic shaper, and the packet was dropped.

Answer: D

NEW QUESTION 22

Refer to the exhibits.

Exhibit A

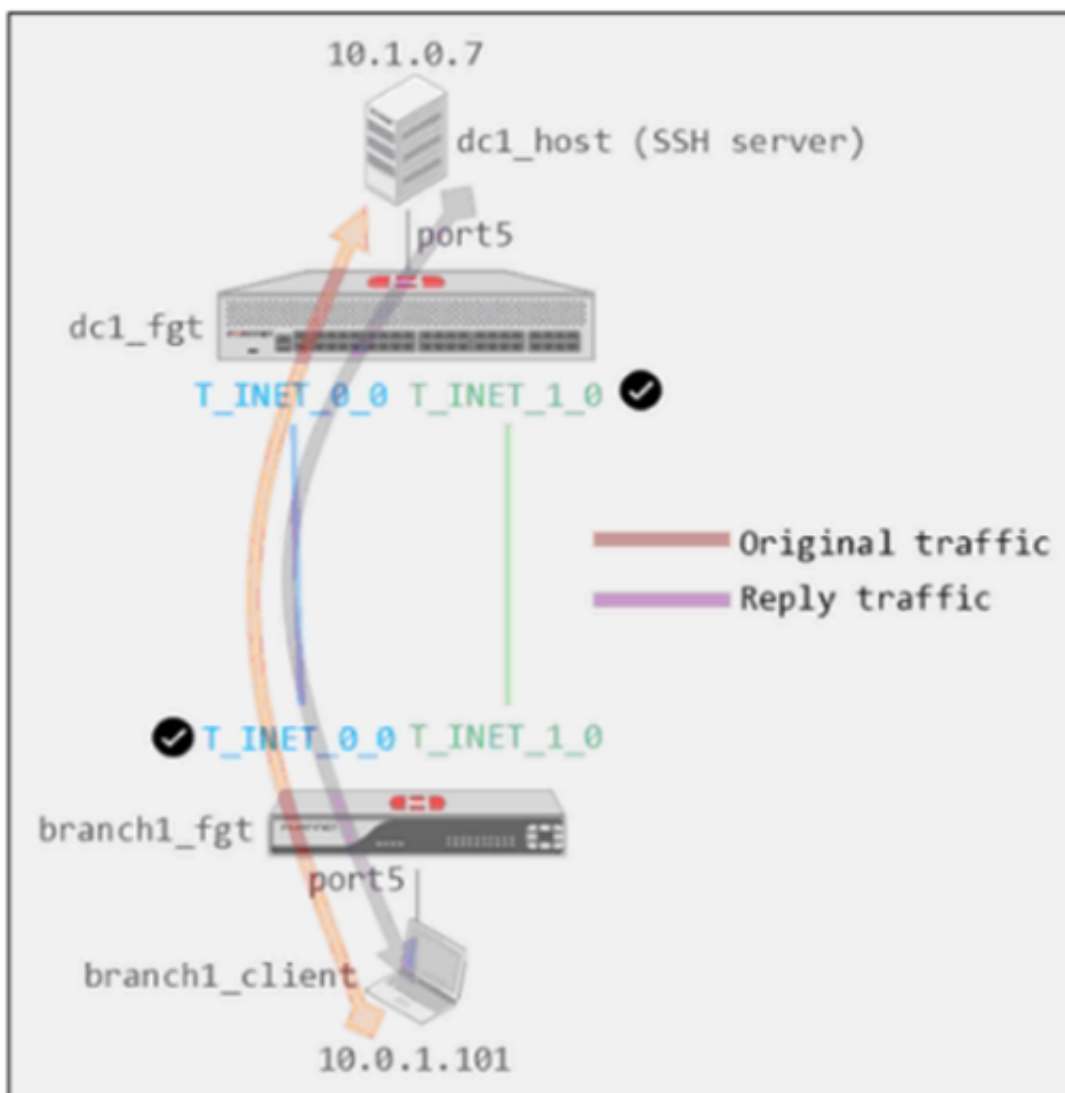


Exhibit B

```
dc1_fgt # show system global
config system global
  set admin-https-redirect disable
  set admintimeout 480
  set alias "FortiGate-VM64"
  set hostname "dc1_fgt"
  set timezone 04
end

dc1_fgt # show system settings
config system settings
  set tcp-session-without-syn enable
  set allow-subnet-overlap enable
  set gui-allow-unnamed-policy enable
  set gui-multiple-interface-policy enable
end
```

Exhibit A shows a site-to-site topology between two FortiGate devices: branch1_fgt and dc1_fgt. Exhibit B shows the system global and system settings configuration on dc1_fgt.

When branch1_client establishes a connection to dc1_host, the administrator observes that, on dc1_fgt, the reply traffic is routed over T_INET_0_0, even though T_INET_1_0 is the preferred member in the matching SD-WAN rule.

Based on the information shown in the exhibits, what configuration change must be made on dc1_fgt so dc1_fgt routes the reply traffic over T_INET_1_0?

- A. Enable auxiliary-session under config system settings.
- B. Disable tp-session-without-syn under config system settings.
- C. Enable snat-route-change under config system global.
- D. Disable allow-subnet-overlap under config system settings.

Answer: A

Explanation:

Controlling return path with auxiliary session When multiple incoming or outgoing interfaces are used in ECMP or for load balancing, changes to routing, incoming, or return traffic interfaces impacts how an existing sessions handles the traffic. Auxiliary sessions can be used to handle these changes to traffic patterns.<https://docs.fortinet.com/document/fortigate/7.0.11/administration-guide/14295/controlling-return-path>

NEW QUESTION 24

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