

## Exam Questions NSE7\_SDW-7.0

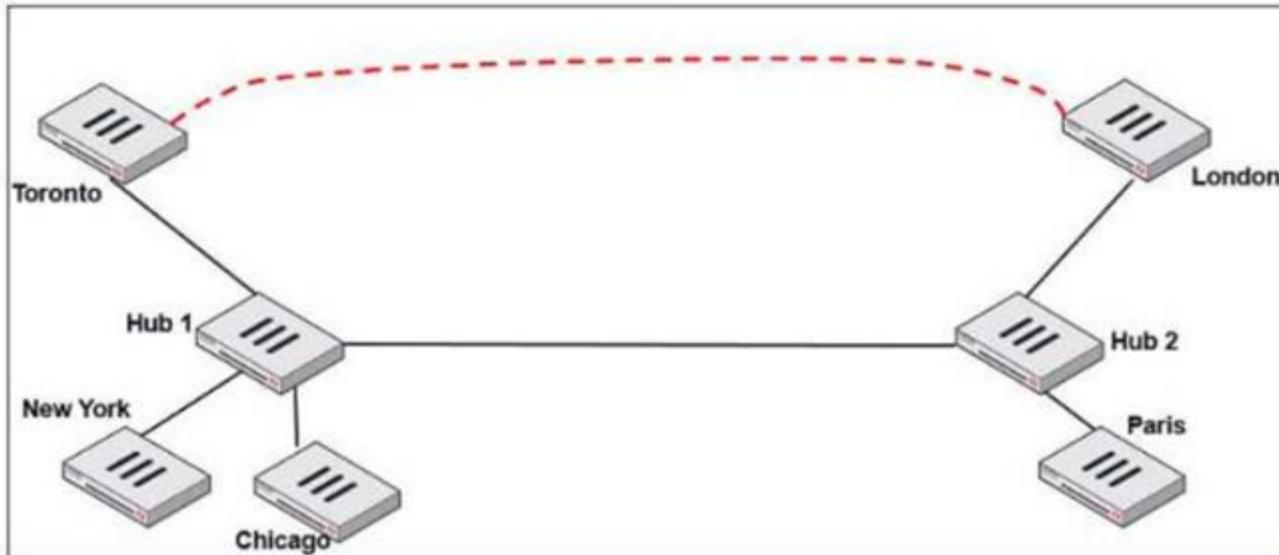
Fortinet NSE 7 - SD-WAN 7.0

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**NEW QUESTION 1**

Refer to the exhibit.



Two hub-and-spoke groups are connected through a site-to-site IPsec VPN between Hub 1 and Hub 2. Which two configuration settings are required for Toronto and London spokes to establish an ADVPN shortcut? (Choose two.)

- A. On the hubs, auto-discovery-sender must be enabled on the IPsec VPNs to spokes.
- B. On the spokes, auto-discovery-receiver must be enabled on the IPsec VPN to the hub.
- C. auto-discovery-forwarder must be enabled on all IPsec VPNs.
- D. On the hubs, net-device must be enabled on all IPsec VPNs.

**Answer: AB**

**NEW QUESTION 2**

Which are two benefits of using CLI templates in FortiManager? (Choose two.)

- A. You can reference meta fields.
- B. You can configure interfaces as SD-WAN members without having to remove references first.
- C. You can configure FortiManager to sync local configuration changes made on the managed device, to the CLI template.
- D. You can configure advanced CLI settings.

**Answer: AD**

**NEW QUESTION 3**

What is the route-tag setting in an SD-WAN rule used for?

- A. To indicate the routes for health check probes.
- B. To indicate the destination of a rule based on learned BGP prefixes.
- C. To indicate the routes that can be used for routing SD-WAN traffic.
- D. To indicate the members that can be used to route SD-WAN traffic.

**Answer: B**

**NEW QUESTION 4**

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 5**

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 6**

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 7**

Exhibit A –

The screenshot shows two configuration panels. The top panel displays system interfaces, and the bottom panel displays static routes.

#	Name	Type	Normalized Interface	Addressing Mode	IP/Netmask	Access
<b>Physical (10)</b>						
1	port1	Physical	port1	Manual	203.0.113.1/255.255.255.2	PING
2	port2	Physical	port2	Manual	203.0.113.9/255.255.255.2	PING
3	port3	Physical	port3	Manual	0.0.0.0/0.0.0.0	
4	port4	Physical	port4	Manual	172.16.0.9/255.255.255.24	PING
5	port5	Physical	port5	Manual	10.0.2.254/255.255.255.0	PING
6	port6	Physical	port6	Manual	0.0.0.0/0.0.0.0	
7	port7	Physical	port7	Manual	0.0.0.0/0.0.0.0	
8	port8	Physical	port8	Manual	0.0.0.0/0.0.0.0	
9	port9	Physical	port9	Manual	0.0.0.0/0.0.0.0	
10	port10	Physical	port10	Manual	192.168.0.32/255.255.255.	HTTPS, PING, SSH, HT
<b>Aggregate (1)</b>						
11	fortilink	Aggregate		Manual	169.254.1.1/255.255.255.0	PING, Security Fabric C
<b>Tunnel (3)</b>						
12	raf.root	Tunnel		Manual	0.0.0.0/0.0.0.0	
13	l2t.root	Tunnel		Manual	0.0.0.0/0.0.0.0	
14	ssl.root (SSL VPN interf	Tunnel		Manual	0.0.0.0/0.0.0.0	
<b>EMAC VLAN (1)</b>						
15	vl_lan_ts	EMAC VLAN		Manual	10.0.102.1/255.255.255.0	PING
<b>SD-WAN Zone (2)</b>						
16	virtual-wan-link	SD-WAN Zone				
17	SASE	SD-WAN Zone	SASE			

#	ID	Destination	Gateway	Interface	Distance	Priority	Status	Description
<b>Static Route (2)</b>								
1	1	0.0.0.0/0.0.0.0	203.0.113.2	port1	10	0	Enable	
2	2	0.0.0.0/0.0.0.0	203.0.113.10	port2	10	0	Enable	

Exhibit B –

The screenshot shows a table of firewall policies.

#	Name	From	To	Source	Destination	Schedule	Service
1	Internet_Access	port5	port1	all	all	always	ALL
<b>Implicit (2-2 / Total: 1)</b>							
2	Implicit Deny	any	any	all	all	always	ALL

Exhibit A shows the system interface with the static routes and exhibit B shows the firewall policies on the managed FortiGate. Based on the FortiGate configuration shown in the exhibits, what issue might you encounter when creating an SD-WAN zone for port1 and port2?

- A. port1 is assigned a manual IP address.
- B. port1 is referenced in a firewall policy.
- C. port2 is referenced in a static route.
- D. port1 and port2 are not administratively down.

Answer: B

**NEW QUESTION 8**

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 9**

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 10**

Refer to the exhibit.

```
session info: proto=6 proto_state=11 duration=242 expire=3349 timeout=3600
flags=00000000 socktype=0 sockport=0 av_idx=0 use=4
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=log dirty may_dirty ndr f00 app_valid
statistic(bytes/packets/allow_err): org=3421/20/1 reply=3777/17/1 tuples=3
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
orgin->sink: org pre->post, reply pre->post dev=7->3/3->7 gwy=0.0.0.0/0.0.0.0
hook=post dir=org act=snat 10.0.1.101:34676->128.66.0.1:22(192.2.0.1:34676)
hook=pre dir=reply act=dnat 128.66.0.1:22->192.2.0.1:34676(10.0.1.101:34676)
hook=post dir=reply act=noop 128.66.0.1:22->10.0.1.101:34676(0.0.0.0:0)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=2 pol_uuid_idx=14721 auth_info=0 chk_client_info=0 vd=0
serial=000032d9 tos=ff/ff app_list=2000 app=16060 url_cat=0
sdwan_mbr_seq=1 sdwan_service_id=2
rpdb_link_id=ff000002 rpdb_svc_id=0 ngfwid=n/a
npu_state=0x001008
```

Which statement explains the output shown in the exhibit?

- A. FortiGate performed standard FIB routing on the session.
- B. FortiGate will not re-evaluate the session following a firewall policy change.
- C. FortiGate used 192.2.0.1 as the gateway for the original direction of the traffic.
- D. FortiGate must re-evaluate the session due to routing change.

Answer: D

**NEW QUESTION 10**

Refer to the exhibits.  
 Exhibit A

```
config system global
    set snat-route-change enable
end
```

Exhibit B

```
branch1_fgt # get router info routing-table all
Codes: K - kernel, C - connected, S - static, R - RIP, B - BGP
       O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default

Routing table for VRF=0
S*    0.0.0.0/0 [1/0] via 192.2.0.2, port2, [1/0]
      [1/0] via 192.2.0.10, port1 [10/0]
...
```

Exhibit A shows the source NAT (SNAT) global setting and exhibit B shows the routing table on FortiGate.

Based on the exhibits, which two actions does FortiGate perform on existing sessions established over port2, if the administrator increases the static route priority on port2 to 20? (Choose two.)

- A. FortiGate flags the sessions as dirty.
- B. FortiGate continues routing the sessions with no SNAT, over port2.
- C. FortiGate performs a route lookup for the original traffic only.
- D. FortiGate updates the gateway information of the sessions with SNAT so that they use port1 instead of port2.

Answer: AD

**NEW QUESTION 12**

Which diagnostic command can you use to show the configured SD-WAN zones and their assigned members?

- A. diagnose sys sdwan zone
- B. diagnose sys sdwan service
- C. diagnose sys sdwan member
- D. diagnose sys sdwan interface

Answer: A

**NEW QUESTION 14**

Refer to the exhibit.

```
branch1_fgt # diagnose sys sdwan service 3

Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
Gen(5), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(priority), link-cost-
factor(latency), link-cost-threshold(10), health-check(VPN_PING)
Members(3):
  1: Seq_num(3 T_INET_0_0), alive, latency: 101.349, selected
  2: Seq_num(4 T_INET_1_0), alive, latency: 151.278, selected
  3: Seq_num(5 T_MPLS_0), alive, latency: 200.984, selected
Src address(1):
  10.0.1.0-10.0.1.255

Dst address(1):
  10.0.0.0-10.255.255.255

branch1_fgt (3) # show
config service
edit 3
  set name "Corp"
  set mode priority
  set dst "Corp-net"
  set src "LAN-net"
  set health-check "VPN_PING"
  set priority-members 3 4 5
next
end
```

The exhibit shows the SD-WAN rule status and configuration.

Based on the exhibit, which change in the measured latency will make T\_MPLS\_0 the new preferred member?

- A. When T\_INET\_0\_0 and T\_MPLS\_0 have the same latency.
- B. When T\_MPLS\_0 has a latency of 100 ms.
- C. When T\_INET\_0\_0 has a latency of 250 ms.
- D. When T\_MPLS\_0 has a latency of 80 ms.

**Answer: D**

#### NEW QUESTION 19

Which two tasks are part of using central VPN management? (Choose two.)

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

**Answer: AD**

#### NEW QUESTION 23

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 27

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.

**Answer: CD**

#### Explanation:

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.

**NEW QUESTION 28**

Refer to the exhibit.

```
# diagnose sys session list

session info: proto=6 proto_state=01 duration=39 expire=3593 timeout=3600 flags=00000000
socktype=0 sockport=0 av_idx=0 use=4
state=may_dirty npu
origin->sink: org pre->post, reply pre->post dev=7->5/5->7 gwy=10.10.10.1/10.9.31.160
hook=pre dir=org act=noop 10.9.31.160:7932->10.0.1.7:22(0.0.0.0:0)
hook=post dir=reply act=noop 10.0.1.7:22->10.9.31.160:7932(0.0.0.0:0)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00045e02 tos=ff/ff app_list=0 app=0 url_cat=0
sdwan_mbr_seq=1 sdwan_service_id=1
rpdb_link_id=80000000 rpdb_svc_id=0 ngfwid=n/a
npu_state=0x4000c00
npu info: flag=0x81/0x81, offload=8/8, ips_offload=0/0, epid=64/76, ipid=76/64,
vlan=0x0000/0x0000
vlifid=76/64, vtag_in=0x0000/0x0000 in_npu=1/1, out_npu=1/1, fwd_en=0/0, qid=2/2
reflect info 0:
dev=7->6/6->7
npu_state=0x4000800
npu info: flag=0x00/0x81, offload=0/8, ips_offload=0/0, epid=0/76, ipid=0/65, vlan=0x0000/0x0000
vlifid=0/65, vtag_in=0x0000/0x0000 in_npu=0/1, out_npu=0/1, fwd_en=0/0, qid=0/2
total reflect session num: 1
total session 1

# diagnose netlink interface list

if=port1 family=00 type=1 index=5 mtu=1500 link=0 master=0
if=port2 family=00 type=1 index=6 mtu=1500 link=0 master=0
if=port3 family=00 type=1 index=7 mtu=1500 link=0 master=0
```

The exhibit shows the details of a session and the index numbers of some relevant interfaces on a FortiGate appliance that supports hardware offloading. Based on the information shown in the exhibits, which two statements about the session are true? (Choose two.)

- A. The reply direction of the asymmetric traffic flows from port2 to port3.
- B. The auxiliary session can be offloaded to hardware.
- C. The original direction of the symmetric traffic flows from port3 to port2.
- D. The main session cannot be offloaded to hardware.

**Answer:** AB

**NEW QUESTION 33**

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.

**Answer:** AC

**Explanation:**

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>

**NEW QUESTION 35**

Refer to the exhibits. Exhibit A

```
branch1_fgt (3) # show
config service
  edit 3
    set name "Corp"
    set mode sla
    set dst "Corp-net"
    set src "LAN-net"
    config sla
      edit "VPN_PING"
        set id 1
      next
      edit "VPN_HTTP"
        set id 1
      next
    end
    set priority-members 3 4 5
    set gateway enable
  next
end
```

Exhibit B

```
branch1_fgt # diagnose sys sdwan service 3

Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
Gen(1), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(sla), sla-compare-order
Members(2):
  1: Seq_num(5 T_MPLS_0), alive, sla(0x3), gid(0), cfg_order(2), cost(0), selected
  2: Seq_num(4 T_INET_1_0), alive, sla(0x1), gid(0), cfg_order(1), cost(0), selected
  3: Seq_num(3 T_INET_0_0), alive, sla(0x0), gid(0), cfg_order(0), cost(0), selected
Src address(1):
  10.0.1.0-10.0.1.255

Dst address(1):
  10.0.0.0-10.255.255.255

branch1_fgt # get router info routing-table all | grep T_
S      10.0.0.0/8 [1/0] via T_INET_0_0 tunnel 100.64.1.1
      [1/0] via T_INET_1_0 tunnel 100.64.1.9
S      10.201.1.254/32 [15/0] via T_INET_0_0 tunnel 100.64.1.1
S      10.202.1.254/32 [15/0] via T_INET_1_0 tunnel 100.64.1.9
S      10.203.1.254/32 [15/0] via T_MPLS_0 tunnel 172.16.1.5

branch1_fgt # diagnose sys sdwan member | grep T_
Member(3): interface: T_INET_0_0, flags=0x4 , gateway: 100.64.1.1, peer: 10.201.1.254,
priority: 0 1024, weight: 0
Member(4): interface: T_INET_1_0, flags=0x4 , gateway: 100.64.1.9, peer: 10.202.1.254,
priority: 0 1024, weight: 0
Member(5): interface: T_MPLS_0, flags=0x4 , gateway: 172.16.1.5, peer: 10.203.1.254,
priority: 0 1024, weight: 0
```

Exhibit A shows the configuration for an SD-WAN rule and exhibit B shows the respective rule status, the routing table, and the member status. The administrator wants to understand the expected behavior for traffic matching the SD-WAN rule. Based on the exhibits, what can the administrator expect for traffic matching the SD-WAN rule?

- A. The traffic will be load balanced across all three overlays.
- B. The traffic will be routed over T\_INET\_0\_0.
- C. The traffic will be routed over T\_MPLS\_0.
- D. The traffic will be routed over T\_INET\_1\_0.

Answer: D

#### NEW QUESTION 37

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 42

Refer to the exhibit.

```
config vpn ipsec phase1-interface
  edit "FIRST_VPN"
    set type dynamic
    set interface "port1"
    set peertype any
    set proposal aes128-sha256 aes256-sha38
    set dhgrp 14 15 19
    set xauthtype auto
    set authusrgrp "first-group"
    set psksecret fortinet1
  next
  edit "SECOND_VPN"
    set type dynamic
    set interface "port1"
    set peertype any
    set proposal aes128-sha256 aes256-sha38
    set dhgrp 14 15 19
    set xauthtype auto
    set authusrgrp "second-group"
    set psksecret fortinet2
  next
edit
```

FortiGate has multiple dial-up VPN interfaces incoming on port1 that match only FIRST\_VPN.

Which two configuration changes must be made to both IPsec VPN interfaces to allow incoming connections to match all possible IPsec dial-up interfaces? (Choose two.)

- A. Specify a unique peer ID for each dial-up VPN interface.  
B. Use different proposals are used between the interfaces.  
C. Configure the IKE mode to be aggressive mode.  
D. Use unique Diffie Hellman groups on each VPN interface.

Answer: AC

#### NEW QUESTION 44

Which two interfaces are considered overlay links? (Choose two.)

- A. LAG  
B. IPsec  
C. Physical  
D. GRE

Answer: BD

#### NEW QUESTION 49

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