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# NSE7_SDW-7.0$^{Q\&As}$

Fortinet NSE 7 - SD-WAN 7.0

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**QUESTION 1**

Refer to the exhibit.

```
NGFW-1 # diagnose sys virtual-wan-link health-check
Health Check(DC_PBX_SLA):
Seq(1 port1): state(dead), packet-loss(75.000%) sla_map=0x0
Seq(2 port2): state(alive), packet-loss(0.000%) latency(50.477), jitter(3.699)
sla_map=0x1

NGFW -1 # diagnose sys sdwan service

Service(1): Address Mode(IPV4) flags=0x0
   Gen(3), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(priority), link-cost-
factor(latency), link-cost-threshold(10), heath-check(DC_PBX_SLA)
   Members:
     1: Seq_num(2 port2), alive, latency: 50.233, selected
     2: Seq_num(1 port1), dead
   Internet Service: Microsoft-Skype_Teams(327781,0,0,0)
   Src address:
       0.0.0.0-255.255.255.255
```

Based on the exhibit, which status description is correct?

A. Port1 is dead because it does not meet the SLA target.

B. Port2 is alive because its packet loss is lower than 10%.

C. The SD-WAN members are monitored by different performance SLAs.

D. Traffic matching the SD-WAN rule is steered through port2.

Correct Answer: D

---

**QUESTION 2**

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 3**

Refer to the exhibit.

```
config system virtual-wan-link
    set status enable
    set load-balance-mode source-ip-based
    config members
        edit 1
                    set interface "port1"
                    set gateway 100.64.1.254
                    set source 100.64.1.1
                    set cost 15
        next
        edit 2
                    set interface "port2"
                    set gateway 100.64.2.254
                    set priority 10
        next
    end
end
```

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 4**

Refer to the exhibit.

```
config system virtual-wan-link
    config service
        edit 1
            set name "Tagged_Traffic"
            set mode manual
            set route-tag 15
        next
    end
end
```

Which statement about the command route-tag in the SD-WAN rule is true?

A. It enables the SD-WAN rule to load balance and assign traffic with a route tag

B. It tags each route and references the tag in the routing table.

C. It uses route tags for a BGP community and assigns the SD-WAN rules with same tag.

D. It ensures route tags match the SD-WAN rule based on the rule order

Correct Answer: C

**QUESTION 5**

Refer to the exhibit.
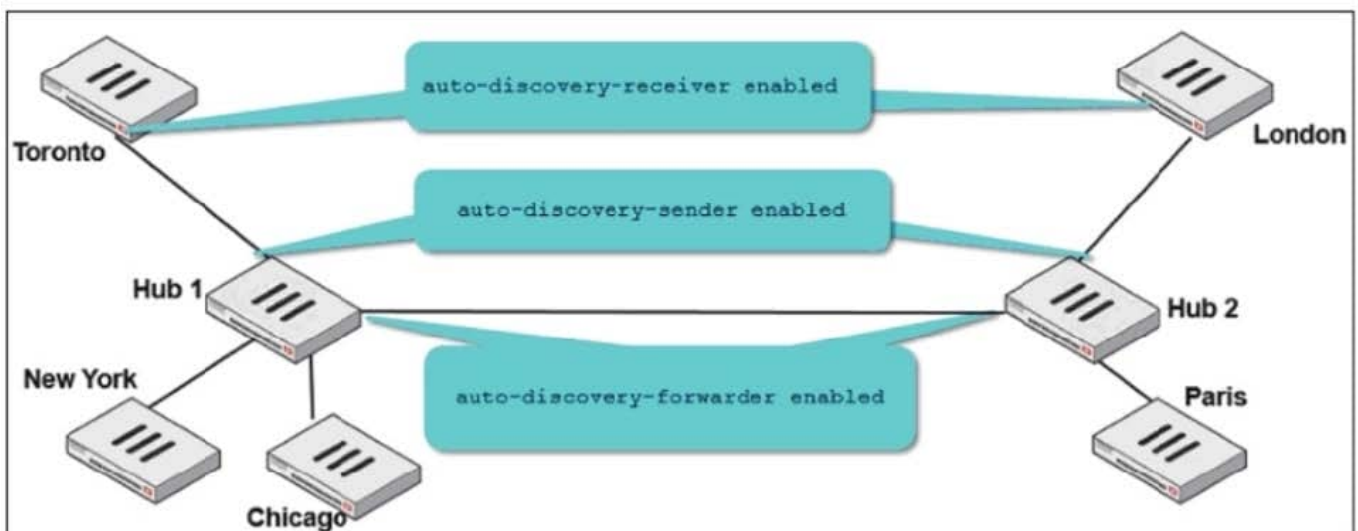


Two hub-and-spoke groups are connected through a site-to-site IPsec VPN between Hub 1 and Hub 2. The administrator configured ADVPN on both hub-and-spoke groups.

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 6**

Which statement about using BGP routes in SD-WAN is true?

A. Learned routes can be used as dynamic destinations in SD-WAN rules.

B. You must use BGP to route traffic for both overlay and underlay links.

C. You must configure AS path prepending.

D. You must use external BGP.

Correct Answer: A

**QUESTION 7**

Which three parameters are available to configure SD-WAN rules? (Choose three.)

A. Application signatures

B. Type of physical link connection

C. URL categories

D. Source and destination IP address

E. Internet service database (ISDB) address object

Correct Answer: ADE

SD-WAN 6.4.5 Guide Page 76. https://docs.fortinet.com/document/fortigate/7.2.1/administration-guide/22371/sd-wan-rules-best-quality

**QUESTION 8**

In the default SD-WAN minimum configuration, which two statements are correct when traffic matches the default implicit SD-WAN rule? (Choose two )

A. Traffic has matched none of the FortiGate policy routes.

B. Matched traffic failed RPF and was caught by the rule.

C. The FIB lookup resolved interface was the SD-WAN interface.

D. An absolute SD-WAN rule was defined and matched traffic.

Correct Answer: AC

---

**QUESTION 9**

Refer to the exhibit.

```
id=20010 trace_id=1402 func=print_pkt_detail line=5588 msg="vd-root:0
received a packet(proto=6, 10.1.10.1:52490->42.44.50.10:443) from port3.
flag [.], seq 1213725680, ack 1169005655, win 65535"
id=20010 trace_id=1402 func=resolve_ip_tuple_fast line=5669 msg="Find an
existing session, id-00001ca4, original direction"
id=20010 trace_id=1402 func=fw_forward_dirty_handler line=447 msg="Denied
by quota check"
```

Which conclusion about the packet debug flow output is correct?

A. The number of concurrent sessions for 10.1.10.1 exceeded the maximum number of concurrent sessions configured in the traffic shaper, and the packet was dropped.

B. The number of concurrent sessions for 10.1.10.1 exceeded the maximum number of concurrent sessions configured in the firewall policy, and the packet was dropped.

C. The packet size exceeded the outgoing interface MTU.

D. The total number of daily sessions for 10.1.10.1 exceeded the maximum number of concurrent sessions configured in the traffic shaper, and the packet was dropped.

Correct Answer: A

---

**QUESTION 10**

Which two statements reflect the benefits of implementing the ADVPN solution to replace conventional VPN topologies? (Choose two )

A. It creates redundant tunnels between hub-and-spokes, in case failure takes place on the primary links.

B. It dynamically assigns cost and weight between the hub and the spokes, based on the physical distance.

C. It ensures that spoke-to-spoke traffic no longer needs to flow through the tunnels through the hub.

D. It provides direct connectivity between all sites by creating on-demand tunnels between spokes.

Correct Answer: CD

**QUESTION 11**

FortiGate is connected to the internet and is obtaining the IP address on its egress interlace from the DHCP server

Which statement is due when FortiGate restarts and receives preconfigured settings to install as part of a zero-touch provisioning process?

A. FortiDeploy connects with FortiGate and provides the initial configuration to contact FortiManager

B. The zero-touch provisioning process completes internally, behind FortiGate

C. FortiManager registers FortiGate after the restart and retrieves the existing configuration

D. The FortiGate cloud key added to the FortiGate cloud portal and FortiGate performs a factory reset before the restart

Correct Answer: A

**QUESTION 12**

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), heath-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_N1PLS_0 has a latency of 80 ms.

Correct Answer: D

## QUESTION 13

Refer to Exhibit:

```
config vpn ipsec phase1-interface
    edit "FIRST_VPN"
        set type dynamic
        set interface "port1"
        set peertype any
        set proposal aes-128-sha256 aes256-sha384
        set add-route enable
        set dhgrp 14 15 19
        set xauthtype auto
        set authusrgrp "first-group"
        set psksecret fortinet1
    next
end
```

Which statement is correct it the responder FortiGate is using a dynamic routing protocol over the IPsec VPN interface?

A. The phase 1 type must be changed to static for dynamic routing.

B. Only dial-up connections without XAuth can be used for the dynamic routing

C. add-route must be disabled to prevent FortiGate from installing VPN static routes

D. peertype must be set to accept only one peer ID for a unique VPN interface

Correct Answer: C

## QUESTION 14

When attempting to establish an IPsec tunnel to FortiGate, all remote users match the FIRST_VPN IPsec VPN. This includes remote users that want to connect to the SECOND_VPN IPsec VPN. Which two configuration changes must you make on both IPsec VPNs so that remote users can connect to their intended IPsec VPN? (Choose two.)

```
config vpn ipsec phase1-interface
    edit "FIRST_VPN"
        set type dynamic
        set interface "port1"
        set peertype any
        set mode main
        set proposal aes128-sha256 aes256-sha384
        set dhgrp 14 15 19
        set xauthtype auto
        set authusrgrp "first-group"
        set psksecret fortinet
    next
    edit "SECOND_VPN"
        set type dynamic
        set interface "port1"
        set peertype any
        set mode main
        set proposal aes128-sha256 aes256-sha384
        set dhgrp 14 15 19
        set xauthtype auto
        set authusrgrp "second-group"
        set psksecret fortinet2
    next
end
```

A. Configure different proposals.

B. Configure a unique peer ID.

C. Change the IKE mode to aggressive.

D. Configure different Diffie Hellman groups.

Correct Answer: BC

https://kb.fortinet.com/kb/documentLink.do?externalID=10114

**QUESTION 15**

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

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