

- **Vendor:** Fortinet
- **Exam Code:** NSE7_SDW-6.4
- **Exam Name:** Fortinet NSE 7 - SD-WAN 6.4
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QUESTION 12

Refer to the exhibit.

```
config vpn ipsec phase1-interface
edit Hub
    set add-route enable
    set net-device disable
    set tunnel-search nexthop
next
end

diagnose vpn tunnel list name Hub
list ipsec tunnel by names in vd 0
-----
name=Hub ver=1 serial=1 100.64.1.1:0->0.0.0.0:0 dst_mtu=0
bound_if=3 lgwy=static/1 tun=intf/0 mode=dialup/2 encap=none/512 options[0200]=search-
nexthop frag-rfc accept traffic=1
proxyid_num=0 child_num=2 refcnt=20 ilast=176 olast=176 ad=/0
stat: rxp=22 txp=18 rxb=2992 txb=1752
dpd: mode=on-idle on=0 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
run_tally=2
ipv4 route tree:
100.64.3.1 1
100.64.5.1 0
172.16.1.2 1
172.16.1.3 0
```

Which two statements about the status of the VPN tunnel are true? (Choose two.)

- A. There are separate virtual interfaces for each dial-up client.
- B. VPN static routes are prevented from populating the FortiGate routing table.
- C. FortiGate created a single IPsec virtual interface that is shared by all clients.
- D. 100.64.3.1 is one of the remote IP address that comes through index interface 1.

Correct Answer: CD

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QUESTION 13

Refer to exhibits.

Exhibit A	Exhibit B				
ID	Name	Source	Destination	Criteria	Members
IPv4 3					
1	Google.ICMP	all	Google-ICMP	Latency	port1 port2
2	Vimeo	all	Vimeo		port2
3	All_Access_Rules	all	all		port1
Implicit 1					
	sd-wan	all	all	Source-Destination IP	any

Exhibit A

Exhibit B

Add Filter

Details

Date/Time	Source	Destination	Application Name	Result	Policy	Destination Interface
2020/10/15 11:12:27	10.0.1.10	 151.101.250.109 (i.vimeocdn.com)	 Vimeo	✓ UTM Allowed	Internet Access (1)	 port2
2020/10/15 11:12:22	10.0.1.10	 34.120.15.67 (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)	 OCSP	✓ 1.28 kB / 1.49 kB	Internet Access (1)	 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	 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)	 HTTPS.BROWSER	✓ 2.08 kB / 13.44 kB	Internet Access (1)	 port1

Exhibit A shows the SD-WAN rules and exhibit B shows the traffic logs. The SD-WAN traffic logs reflect how FortiGate processed traffic.

Which two statements about how the configured SD-WAN rules are processing traffic are true? (Choose two.)

- A. The implicit rule overrides all other rules because parameters widely cover sources and destinations.
- B. SD-WAN rules are evaluated in the same way as firewall policies: from top to bottom.
- C. The All_Access_Rules rule load balances Vimeo application traffic among SD-WAN member interfaces.
- D. The initial session of an application goes through a learning phase in order to apply the correct rule.

Correct Answer: AB

QUESTION 14

What are the two minimum configuration requirements for an outgoing interface to be selected once the SD-WAN logical interface is enabled? (Choose two.)

- A. Specify outgoing interface routing cost.
- B. Configure SD-WAN rules interface preference.
- C. Select SD-WAN balancing strategy.

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D. Specify incoming interfaces in SD-WAN rules.

Correct Answer: AB

QUESTION 15

Refer to the exhibit.

```
FortiGate # diagnose sys session list

session info: proto=1 proto_state=00 duration=25 expire=34 timeout=0 flags=00000000
socktype=0 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=dirty may_dirty
statistic(bytes/packets/allow_err): org=84/1/1 reply=84/1/1 tupless=2
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
origin->sink: org pre->post, reply pre->post dev=5->4/4->5 gwy=192.168.73.2/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:2246->8.8.8.8(192.168.73.132:62662)
hook=pre dir=reply act=dnat 8.8.8.8:62662->192.168.73.132:0(10.0.1.10:2246)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000a2c tos=ff/ff app_list=0 app=0 url_cat=0
rpd_b_link_id= 80000000 rpd_b_svc_id=0 ngfwid=n/a
npu_state=0x040000
total session 1
```

Based on the exhibit, which statement about FortiGate re-evaluating traffic is true?

- A. The type of traffic defined and allowed on firewall policy ID 1 is UDP.
- B. Changes have been made on firewall policy ID 1 on FortiGate.
- C. Firewall policy ID 1 has source NAT disabled.
- D. FortiGate has terminated the session after a change on policy ID 1.

Correct Answer: B

QUESTION 16

What are two reasons why FortiGate would be unable to complete the zero-touch provisioning process? (Choose two.)

- A. The FortiGate cloud key has not been added to the FortiGate cloud portal.
- B. FortiDeploy has connected with FortiGate and provided the initial configuration to contact FortiManager.
- C. FortiGate has obtained a configuration from the platform template in FortiGate cloud.
- D. A factory reset performed on FortiGate.
- E. The zero-touch provisioning process has completed internally, behind FortiGate.

Correct Answer: AE

QUESTION 17

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

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- 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 18

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: CD

QUESTION 19

Refer to the exhibit.

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```
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

QUESTION 20

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 21

Refer to the exhibit.

```
id=20085 trace_id=5087 func=print_pkt_detail line=5588 msg="vd-root:0 received a
packet(proto=6, 10.1.10.1:41370->31.13.80.12:443) from port3. flag [.], seq 1213725680,
ack 1169005655, win 65535"
id=20085 trace_id=5087 func=resolve_ip_tuple_fast line=5669 msg="Find an existing
session, id-00001ca4, original direction"
id=20085 trace_id=5087 func=fw_forward_dirty_handler line=447 msg="blocked by quota
check, drop"
```

Which statement about the trace evaluation by FortiGate is true?

- A. Packets exceeding the configured maximum concurrent connection limit are denied by the

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per-IP shaper.

- B. The packet exceeded the configured bandwidth and was dropped based on the priority configuration.
- C. The packet exceeded the configured maximum bandwidth and was dropped by the shared shaper.
- D. Packets exceeding the configured concurrent connection limit are dropped based on the priority configuration.

Correct Answer: A

QUESTION 22

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.)

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- 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.

Correct Answer: BD

QUESTION 23

Refer to exhibits.

Exhibit A	Exhibit B
<h3>Edit Policy</h3>	
Name	Internet Access
Incoming interface	port3
Outgoing interface	SD-WAN
Source	all + x
Destination	all + x
Schedule	always
Service	ALL + x
Action	<input checked="" type="checkbox"/> ACCEPT <input type="checkbox"/> DENY
Inspection Mode	<input checked="" type="checkbox"/> Flow-based <input type="checkbox"/> Proxy-based
<h3>Firewall / Network Options</h3>	
NAT	<input checked="" type="checkbox"/>
IP Pool Configuration	<input checked="" type="checkbox"/> Use Outgoing Interface Address <input type="checkbox"/> Use Dynamic
Preserve Source Port	<input type="checkbox"/>
Protocol Options	<input checked="" type="checkbox"/> PRX default

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Exhibit A
Exhibit B

Edit Traffic Shaping Policy

Name

Status
☒ Enabled
☐ Disabled

Comments
0/255

If Traffic Matches:

Source
+
x

Destination
+
x

Schedule
☐

Service
+
x

Application
+

URL Category
+

Then:

Action
☒ Apply Shaper
☐ Assign Shaping Class ID

Outgoing Interface
+
x

Shared shaper
☒

Reverse shaper
☐

Per-IP shaper
☐

Exhibit A shows the firewall policy and exhibit B shows the traffic shaping policy.

The traffic shaping policy is being applied to all outbound traffic; however, inbound traffic is not being evaluated by the shaping policy.

Based on the exhibits, what configuration change must be made in which policy so that traffic shaping can be applied to inbound traffic?

- A. The **guaranteed-10mbps** option must be selected as the per-IP shaper option.
- B. The **guaranteed-10mbps** option must be selected as the reverse shaper option.
- C. A new firewall policy must be created and SD-WAN must be selected as the incoming interface.
- D. The reverse shaper option must be enabled and a traffic shaper must be selected.

Correct Answer: B

QUESTION 24

Refer to the exhibit.



What must you configure to enable ADVPN?

- A. ADVPN should only be enabled on unmanaged FortiGate devices.
- B. Each VPN device has a unique pre-shared key configured separately on phase one.
- C. The protected subnets should be set to address object to all (0.0.0.0/0).
- D. On the hub VPN, only the device needs additional phase one settings.

Correct Answer: B

QUESTION 25

Which two statements describe how IPsec phase 1 main mode is different from aggressive mode when performing IKE negotiation? (Choose two.)

- A. A peer ID is included in the first packet from the initiator, along with suggested security policies.
- B. XAuth is enabled as an additional level of authentication, which requires a username and password.
- C. A total of six packets are exchanged between an initiator and a responder instead of three packets.
- D. The use of Diffie Hellman keys is limited by the responder and needs initiator acceptance.

Correct Answer: BC

QUESTION 26

What are two benefits of 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: AD

QUESTION 27

What would best describe the SD-WAN traffic shaping mode that bases itself on a percentage of available bandwidth?

- A. Per-IP shaping mode
- B. Shared policy shaping mode
- C. Interface-based shaping mode
- D. Reverse policy shaping mode

Correct Answer: B