NSE7_SDW-6.4^{Q&As}

Fortinet NSE 7 - SD-WAN 6.4

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QUESTION 1

Refer to the exhibits. Exhibit A:

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 B:

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 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 2

Refer to exhibits.

Exhibit A	Exhibit B	

Edit Policy

Name ⓘ	Internet Access
Incoming interface	▦ port3 ▼
Outgoing interface	🌐 SD-WAN ▼
Source	☰ all ✕
	+
Destination	☰ all ✕
	+
Schedule	🕒 always ▼
Service	👤 ALL ✕
	+
Action	✓ ACCEPT ⊘ DENY
Inspection Mode	Flow-based Proxy-based

Firewall / Network Options

NAT	⬤〇
IP Pool Configuration	Use Outgoing Interface Address Use Dynamic
Preserve Source Port	〇⬤
Protocol Options	PRX default ▼

Exhibit A	Exhibit B	

Edit Traffic Shaping Policy

Name	inbound_outbound_shaper
Status	⬆ Enabled ⬇ Disabled
Comments	Write a comment... 0/255

If Traffic Matches:

Source	🖳 all ✕ +
Destination	🖳 all ✕ +
Schedule	⬤
Service	👤 ALL ✕ +
Application ⓘ	+
URL Category	+

Then:

Action	Apply Shaper Assign Shaping Class ID
Outgoing interface	🌐 SD-WAN ✕ +
Shared shaper	⬤ guarantee-10mbps ▼
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 reverse shaper option must be enabled and a traffic shaper must be selected

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 guaranteed-10mbps option must be selected as the per-IP shaper option

Correct Answer: A

QUESTION 3

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 4

Which CLI command do you use to perform real-time troubleshooting for ADVPN negotiation?

A. diagnose sys virtual-wan-link service

B. get router info routing-table

C. diagnose debug application ike

D. get ipsec tunnel list

Correct Answer: C

QUESTION 5

Refer to the exhibit

```
config system settings
        set firewall-se3sion-dirty check-new
end
```

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 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 the output shown in the exhibit, which two criteria on the SD-WAN member configuration can be used to select an outgoing interface in an SD-WAN rule? (Choose two.)

A. Set priority 10.

B. Set cost 15.

C. Set load-balance-mode source-ip-ip-based.

D. Set source 100.64.1.1.

Correct Answer: AB

QUESTION 7

Which statement is correct about SD-WAN and ADVPN?

A. You must use OSPF.

B. SD-WAN can steer traffic to ADVPN shortcuts established over IPsec overlays configured as SD-WAN members.

C. Routes for ADVPN shortcuts must be manually configured.

D. SD-WAN does not monitor the health and performance of ADVPN shortcuts.

Correct Answer: B

QUESTION 8

Refer to exhibits.

Exhibit A   **Exhibit B**

Edit Policy

Name ⓘ	Internet Access
Incoming interface	🎛 port3 ▼
Outgoing interface	🌐 virtual-wan link ▼
Source	🖥 all ✗ +
Destination	🖥 all ✗ +
Schedule	🕐 always ▼
Service	👤 ALL ✗ +
Action	✓ ACCEPT ⊘ DENY
Inspection Mode	Flow-based Proxy-based

Firewall / Network Options

NAT	🔘
IP Pool Configuration	Use Outgoing Interface Address Use Dynamic
Preserve Source Port	🔘
Protocol Options	PROT default ▼

Exhibit A	Exhibit B	

Edit Traffic Shaping Policy

Name	inbound_outbound_shaper
Status	⬆ Enabled ⬇ Disabled
Comments	Write a comment... 0/255

If Traffic Matches:

Source	🖥 all ✕ +
Destination	🖥 all ✕ +
Schedule	⬤
Service	👤 ALL ✕ +
Application ℹ	+
URL Category	Streaming Media and Download ✕ +

Then:

Action	Apply Shaper Assign Shaping Class ID
Outgoing interface	🌐 virtual-wan link ✕ +
Shared shaper	⬤ guarantee-10mbps ▼

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. Create a new firewall policy, and the select the SD-WAN zone as Incoming Interface.

B. In the traffic shaping policy, select Assign Shaping Class ID as Action.

C. In the firewall policy, select Proxy-based as Inspection Mode.

D. In the traffic shaping policy, enable Reverse shaper, and then select the traffic shaper to use.

Correct Answer: D

QUESTION 9

Which statement is correct about the SD-WAN and ADVPN?

A. ADVPN interface can be a member of SD-WAN interface.

B. Dynamic VPN is not supported as an SD-Wan interface.

C. Spoke support dynamic VPN as a static interface.

D. Hub FortiGate is limited to use ADVPN as SD-WAN member interface.

Correct Answer: A

QUESTION 10

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 11

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

A. Adding static routes must be enabled on all ADVPN interfaces.

B. VPN topologies must be form using only BGP dynamic routing with SD-WAN

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

D. Dynamic routing protocols can be used only with non-encrypted traffic

Correct Answer: C

QUESTION 12

Which feature enables SD-WAN to combine IPsec VPN dynamic shortcut tunnels between spokes and a static tunnel to the hub?

A. ADVPN

B. GRE

C. SSLVPN

D. OCVPN

Correct Answer: A

QUESTION 13

Refer to the exhibit.

```
hit_count=0 last_used=2020-10-16 07:49:14

id=0x7f090002 vwl_service=2(Vimeo) 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 oif=4(port2)
source(1): 0.0.0.0-255.255.255.255
destination wildcard(1): 0.0.0.0/0.0.0.0
internet service(1): Vimeo(4294838044,0,0,0, 25360)
hit_count=0 last_used=2020-10-16 07:49:14

id=0x7f090003 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 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=2020-10-16 07:49:14
```

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

A. The diagnostic output presents only of the policy routes

B. The all_rules rule is the implicit SD-WAN rule in place

C. There is more than one SD-WAN rule configured

D. At least one policy route is implemented and in effect

Correct Answer: AC

QUESTION 14

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 15

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

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