Exam Questions NSE7_SDW-7.2

Fortinet NSE 7 - SD-WAN 7.2

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NEW QUESTION 1
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: C

NEW QUESTION 2
Which action fortigate performs on the traffic that is subject to a per-IP traffic shaper of 10 Mbps?

A. FortiGate applies traffic shaping to the original traffic direction only.
B. FortiGate shares 10 Mbps of bandwidth equally among all source IP addresse
C. RIAS
D. Fortigate limits each source ip address to a maximum bandwidth of 10 Mbps.
E. FortiGate guarantees a minimum of 10 Mbps of bandwidth to each source IP address.

Answer: C

NEW QUESTION 3
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 4
Refer to the exhibits.

Exhibit A

```
branch1_fgt # diagnose sys sdwan service

Service(1): Address Mode(IPV4) flags=0x200 use-shortcut-sla
  Gen(8), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(manual)
  Members(2):
    1: Seq_num(1 port1), alive, selected
    2: Seq_num(2 port2), alive, selected
  Internet Service(3): GoToMeeting(4294836966,0,0,0 16354)
Microsoft.Office.365.Portal(4294837474,0,0,0 41468) Salesforce(4294837976,0,0,0 16920)
  Src address(1):
        10.0.1.0-10.0.1.255


Service(2): Address Mode(IPV4) flags=0x200 use-shortcut-sla
  Gen(7), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(manual)
  Members(1):
    1: Seq_num(2 port2), alive, selected
  Internet Service(2): Facebook(4294836806,0,0,0 15832) Twitter(4294838278,0,0,0 16001)
  Src address(1):
        10.0.1.0-10.0.1.255

branch1_fgt # diagnose sys sdwan internet-service-app-ctrl-list

Facebook(15832 4294836806): 157.240.229.35 6 443 Tue Mar  8 12:24:04 2022
GoToMeeting(16354 4294836966): 23.205.106.86 6 443 Tue Mar  8 12:24:04 2022
GoToMeeting(16354 4294836966): 23.212.249.144 6 443 Tue Mar  8 12:24:39 2022
Salesforce(16920 4294837976): 23.212.249.11 6 443 Tue Mar  8 12:24:04 2022

branch1_fgt # get router info routing-table all
...
S*      0.0.0.0/0 [1/0] via 192.2.0.2, port1
                  [1/0] via 192.2.0.10, port2
...
```

Exhibit B

An administrator is testing application steering in SD-WAN. Before generating test traffic, the administrator collected the information shown in exhibit A.
After generating GoToMeeting test traffic, the administrator examined the respective traffic log on FortiAnalyzer, which is shown in exhibit B. The administrator
noticed that the traffic matched the implicit SD-WAN rule, but they expected the traffic to match rule ID 1.
Which two reasons explain why the traffic matched the implicit SD-WAN rule? (Choose two.)

A. FortiGate did not refresh the routing information on the session after the application was detected.
B. Port1 and port2 do not have a valid route to the destination.
C. Full SSL inspection is not enabled on the matching firewall policy.
D. The session 3-tuple did not match any of the existing entries in the ISDB application cache.

Answer: BC

Explanation:
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NEW QUESTION 5
Which two statements are true about using SD-WAN to steer local-out traffic? (Choose two.)

A. FortiGate does not consider the source address of the packet when matching an SD- WAN rule for local-out traffic.
B. By default, local-out traffic does not use SD-WAN.
C. By default, FortiGate does not check if the selected member has a valid route to the destination.
D. You must configure each local-out feature individually, to use SD-WAN.

Answer: BD

NEW QUESTION 6
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 tuples=2
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
orgin->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
rpdb_link_id= 80000000 rpdb_svc_id=0 nqfwid=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. FortiGate has terminated the session after a change on policy ID 1.
C. Changes have been made on firewall policy ID 1 on FortiGate.
D. Firewall policy ID 1 has source NAT disabled.

Answer: C

NEW QUESTION 7
Which statement about SD-WAN zones is true?

A. An SD-WAN zone can contain only one type of interface.
B. An SD-WAN zone can contain between 0 and 512 members.
C. You cannot use an SD-WAN zone in static route definitions.
D. You can configure up to 32 SD-WAN zones per VDOM.

Answer: D

Explanation:
 SD-WAN zones are a group of interfaces that share the same SD-WAN settings, such as health check, SLA, and load balancing. Some characteristics of SD-WAN zones are:
? An SD-WAN zone can contain different types of interfaces, such as physical, VLAN, aggregate, and tunnel interfaces1.
? An SD-WAN zone can contain up to 512 members1.
? You can use an SD-WAN zone in static route definitions, as long as the destination interface is also an SD-WAN zone1.
? You can configure up to 32 SD-WAN zones per VDOM1.

NEW QUESTION 8
Which best describes the SD-WAN traffic shaping mode that bases itself on a percentage of available bandwidth?

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

Answer: A

Explanation:
Interface-based shaping goes further, enabling traffic controls based on percentage of the interface bandwidth.

NEW QUESTION 9
Which diagnostic command can you use to show the member utilization statistics measured by performance SLAs for the last 10 minutes?

A. diagnose sys sdwan sla-log
B. diagnose ays sdwan health-check
C. diagnose sys sdwan intf-sla-log
D. diagnose sys sdwan log

Answer: A

NEW QUESTION 10
Which two statements about SLA targets and SD-WAN rules are true? (Choose two.)

A. SD-WAN rules use SLA targets to check if the preferred members meet the SLA requirements
B. Member metrics are measured only if an SLA target is configured
C. When configuring an SD-WAN rule you can select multiple SLA targets of the same performance SLA
D. SLA targets are used only by SD-WAN rules that are configured with Lowest Cost (SLA) or Maximize Bandwidth (SLA) as strategy

Answer: AD

NEW QUESTION 10
Which two statements about SLA targets and SD-WAN rules are true? (Choose two.)

A. When configuring an SD-WAN rule, you can select multiple SLA targets of the same performance SLA.
B. SD-WAN rules use SLA targets to check if the preferred members meet the SLA requirements.

C. SLA targets are used only by SD-WAN rules that are configured with Lowest Cost (SLA) or Maximize Bandwidth (SLA) as strategy.
D. Member metrics are measured only if an SLA target is configured.

Answer: BD

NEW QUESTION 15
Which two conclusions for traffic that matches the traffic shaper are true? (Choose two.)

```
# diagnose firewall shaper traffic-shaper list name VoIP_Shaper
name VoIP_Shaper
maximum-bandwidth 6250 KB/sec
guaranteed-bandwidth 2500 KB/sec
current-bandwidth 93 KB/sec
priority 2
overhead 0
tos ff
packets dropped 0
bytes dropped 0
```

A. The traffic shaper drops packets if the bandwidth is less than 2500 KBps.
B. The measured bandwidth is less than 100 KBps.
C. The traffic shaper drops packets if the bandwidth exceeds 6250 KBps.
D. The traffic shaper limits the bandwidth of each source IP to a maximum of 6250 KBps.

Answer: BC

NEW QUESTION 16
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: C

NEW QUESTION 20
Refer to the exhibits. Exhibit A -

Edit Traffic Shaping Policy

IP Version	IPv4 IPv6
Name	Limit_YouTube
Status	Enable Disable
Comments	0/255

If Traffic Matches:

Source Internet Service	◯
Source Address	⚏ LAN-net ⊗
Source User	+
Source User Group	+
Destination Internet Service	◯
Destination Address	▣ all ⊗
Schedule	+
Service	⊕ ALL ⊗
Application	▶ YouTube ⊗
Application Category	+
Application Group	+
URL Category	+
Type Of Service	0x00
Type Of Service Mask	0x00

Then:

Action	Apply Shaper Assign Group
Outgoing Interface	⚏ underlay ⊗
Shared Shaper	◄ low-priority ⊗
Reverse Shaper	◼ low-priority ⊗
Per-IP Shaper	+
Differentiated Services	◯
Differentiated Services Reverse	◯

Exhibit B -

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

The administrator wants FortiGate to limit the bandwidth used by YouTube. When testing, the administrator determines that FortiGate does not apply traffic shaping on YouTube traffic.

Based on the policies shown in the exhibits, what configuration change must be made so FortiGate performs traffic shaping on YouTube traffic?

A. Destination internet service must be enabled on the traffic shaping policy.
B. Application control must be enabled on the firewall policy.
C. Web filtering must be enabled on the firewall policy.
D. Individual SD-WAN members must be selected as the outgoing interface on the traffic shaping policy.

Answer: C

NEW QUESTION 23
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.

Answer: AB

NEW QUESTION 27
Which components make up the secure SD-WAN solution?

A. Application, antivirus, and URL, and SSL inspection
B. Datacenter, branch offices, and public cloud
C. FortiGate, FortiManager, FortiAnalyzer, and FortiDeploy
D. Telephone, ISDN, and telecom network.

Answer: C

NEW QUESTION 31
What are two benefits of using the Internet service database (ISDB) in an SD-WAN rule? (Choose two.)

A. The ISDB is dynamically updated and reduces administrative overhead.
B. The ISDB requires application control to maintain signatures and perform load balancing.
C. The ISDB applies rules to traffic from specific sources, based on application type.
D. The ISDB contains the IP addresses and port ranges of well-known internet services.

Answer: AD

NEW QUESTION 32
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: A

NEW QUESTION 33
Refer to the exhibits. Exhibit A -

Exhibit B -

Exhibit A shows the SD-WAN performance SLA and exhibit B shows the SD-WAN member status, the routing table, and the performance SLA status.
If port2 is detected dead by FortiGate, what is the expected behavior?

A. Port2 becomes alive after three successful probes are detected.
B. FortiGate removes all static routes for port2.
C. The administrator manually restores the static routes for port2, if port2 becomes alive.
D. Host 8.8.8.8 is reachable through port1 and port2.

Answer: B

Explanation:
 This is due to Update static route is enable which removes the static route entry referencing the interface if the interface is dead

NEW QUESTION 36
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 40
Which CLI command do you use to perform real-time troubleshooting for ADVPN negotiation?

A. get router info routing-table all

B. diagnose debug application ike
C. diagnose vpn tunnel list
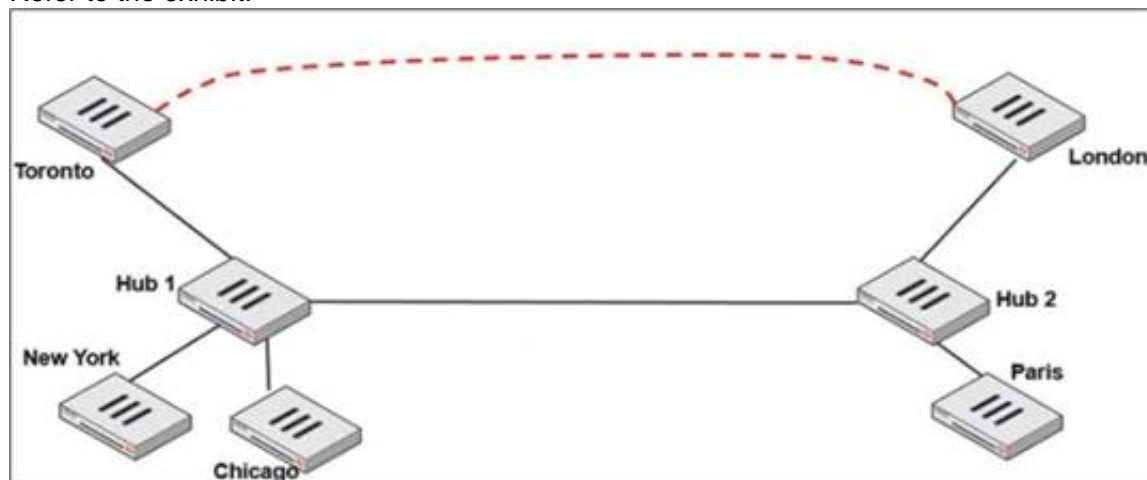D. get ipsec tunnel list

Answer: B

Explanation:
IKE real-time debug - useful when debugging ADVPN shortcut messages and spoke-to- spoke negotiations.
• diagnose debug console timestamp enable
• diagnose vpn ike log filter clear
• diagnose vpn ike log filter mdst-addr4 <ip.of.hub> <ip.of.spoke>
• diagnose debug application ike -1
• diagnose debug enable

NEW QUESTION 42
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 46
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 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.
B. The packet size exceeded the outgoing interface MTU.
C. 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.
D. 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.

Answer: C

Explanation:
In a Per-IP shaper configuration, if an IP address exceeds the configured concurrent session limit, the message "Denied by quota check" appears. SD-WAN 7.0 Study Guide page 287

NEW QUESTION 50
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 52
Which two interfaces are considered overlay links? (Choose two.)

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

Answer: BD

NEW QUESTION 53
Which statement is correct about SD-WAN and ADVPN?

A. Routes for ADVPN shortcuts must be manually configured.
B. SD-WAN can steer traffic to ADVPN shortcuts, established over IPsec overlays, configured as SD-WAN members.
C. SD-WAN does not monitor the health and performance of ADVPN shortcuts.
D. You must use IKEv2 on IPsec tunnels.

Answer: B

NEW QUESTION 56
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.

Answer: A

NEW QUESTION 60
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