NSE7_SDW-7.0 Dumps

Fortinet NSE 7 - SD-WAN 7.0

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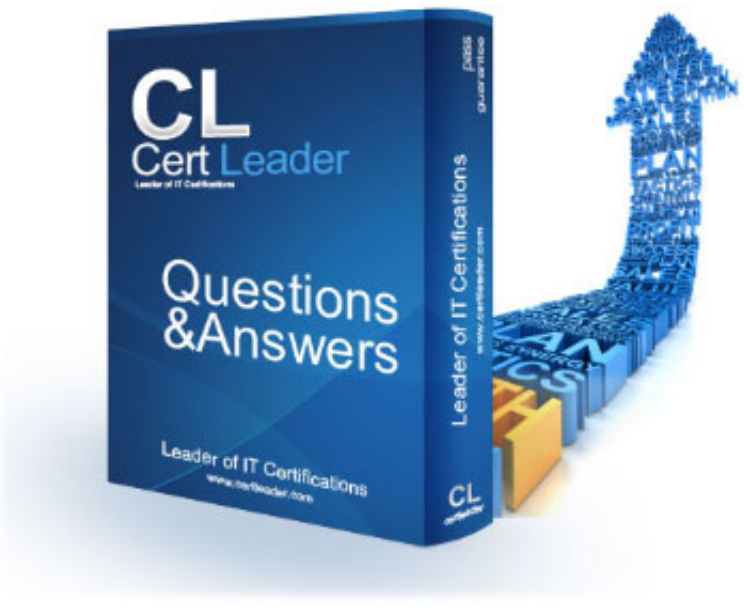


NEW QUESTION 1
Refer to the exhibits.

Exhibit A

```
config duplication
    edit 1
        set srcaddr "10.0.1.0/24"
        set dstaddr "10.1.0.0/24"
        set srcintf "port5"
        set dstintf "overlay"
        set service "ALL"
        set packet-duplication force
    next
end
```

```
branch1_fgt # diagnose sys sdwan zone
Zone SASE index=2
        members(0):
Zone overlay index=4
        members(3): 19(T_INET_0_0) 20(T_INET_1_0) 21(T_MPLS_0)
Zone underlay index=3
        members(2): 3(port1) 4(port2)
Zone virtual-wan-link index=1
        members(0):
```

```
1.274665 port5 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275788 T_INET_0_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275790 T_INET_1_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275801 T_MPLS_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.278365 T_INET_1_0 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
1.278553 port5 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit B

```
3.874431 T_INET_1_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.874630 port5 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.874895 T_INET_0_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.875125 T_MPLS_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.875054 port5 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
3.875308 T_INET_1_0 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit A shows the packet duplication rule configuration, the SD-WAN zone status output, and the sniffer output on FortiGate acting as the sender. Exhibit B shows the sniffer output on a FortiGate acting as the receiver.
The administrator configured packet duplication on both FortiGate devices. The sniffer output on the sender FortiGate shows that FortiGate forwards an ICMP echo request packet over three overlays, but it only receives one reply packet through T_INET_1_0.
Based on the output shown in the exhibits, which two reasons can cause the observed behavior? (Choose two.)

A. On the receiver FortiGate, packet-de-duplication is enabled.
B. The ICMP echo request packets sent over T_INET_0_0 and T_MPLS_0 were dropped along the way.
C. The ICMP echo request packets received over T_INET_0_0 and T_MPLS_0 were offloaded to NPU.
D. On the sender FortiGate, duplication-max-num is set to 3.

Answer: AD

NEW QUESTION 2
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 intf-sla-log
B. diagnose sys sdwan health-check
C. diagnose sys sdwan log
D. diagnose sys sdwan sla-log

Answer: D

Explanation:
SD-WAN 7.2 Study Guide page 321 You can view the stored member metrics by running the diagnose sys sdwan sla-log command. Note that you must include the name of the performance SLA followed by the member configuration index number. To display the SLA logs per interface, you run the diagnose sys sdwan intf-sla-log command.

NEW QUESTION 3
Refer to the exhibit.

```
ike 0:T_INET_0_0:214: received informational request
ike 0:T_INET_0_0:214: processing notify type SHORTCUT_QUERY
ike 0:T_INET_0_0: recv shortcut-query 9065761962601467474
07409008f7fbd17e/0000000000000000 192.2.0.1 10.0.1.101->10.0.2.101 psk 64 ppk 0 ttl 32
nat 0 ver 2 mode 0
ike 0:T_INET_0: iif 20 10.0.1.101->10.0.2.101 route lookup oif 20 T_INET_0 gwy
10.201.1.1
ike 0:T_INET_0_1: forward shortcut-query 9065761962601467474
07409008f7fbd17e/0000000000000000 192.2.0.1 10.0.1.101->10.0.2.101 psk 64 ppk 0 ttl 31
ver 2 mode 0, ext-mapping 192.2.0.1:500
```

Which statement about the role of the ADVPN device in handling traffic is true?

A. This is a spoke that has received a query from a remote hub and has forwarded the response to its hub.
B. Two hubs, 10.0.1.101 and 10.0.2.101, are receiving and forwarding queries between each other.
C. This is a hub that has received a query from a spoke and has forwarded it to another spoke.
D. Two spokes, 192.2.0.1 and 10.0.2.101, forward their queries to their hubs.

Answer: C

NEW QUESTION 4
What are two reasons for 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.

Answer: AE

NEW QUESTION 5
Which two performance SLA protocols enable you to verify that the server response contains a specific value? (Choose two.)

A. http
B. icmp
C. twamp
D. dns

Answer: AD

Explanation:
Pages 85,86 in Study guide 7.0 Pages 100,101 in Study guide 7

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
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.

Answer: AC

NEW QUESTION 8
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->8.8.8.8:8(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 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. 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 9
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 10
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
logver	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
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 11
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: B

NEW QUESTION 12
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 17
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 20
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 24
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 25
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 26
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
orgin->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 28
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
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 37
Refer to the exhibit.

```
branch1_fgt # diagnose sys sdwan service 1

Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
  Gen(6), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(manual)
  Members(2):
    1: Seq_num(3 T_INET_0_0), alive, selected
    2: Seq_num(4 T_INET_1_0), alive, 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 # diagnose sys sdwan member | grep T_INET_
Member(3): interface: T_INET_0_0, flags=0x4 , gateway: 100.64.1.1, priority: 10 1024,
weight: 0
Member(4): interface: T_INET_1_0, flags=0x4 , gateway: 100.64.1.9, priority: 0 1024,
weight: 0

branch1_fgt # get router info routing-table all | grep T_INET_
S       10.0.0.0/8 [1/0] via T_INET_1_0 tunnel 100.64.1.9
```

An administrator is troubleshooting SD-WAN on FortiGate. A device behind branch1_fgt generates traffic to the 10.0.0.0/8 network. The administrator expects the traffic to match SD-WAN rule ID 1 and be routed over T_INET_0_0. However, the traffic is routed over T_INET_1_0.
Based on the output shown in the exhibit, which two reasons can cause the observed behavior? (Choose two.)

A. The traffic matches a regular policy route configured with T_INET_1_0 as the outgoing device.
B. T_INET_1_0 has a lower route priority value (higher priority) than T_INET_0_0.
C. T_INET_0_0 does not have a valid route to the destination.
D. T_INET_1_0 has a higher member configuration priority than T_INET_0_0.

Answer: AC

Explanation:
https://community.fortinet.com/t5/FortiGate/Technical-Tip-Assigning-Priority-to-SD-WAN-Members-for-Defau

NEW QUESTION 38
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 42
Refer to the exhibits.
Exhibit A

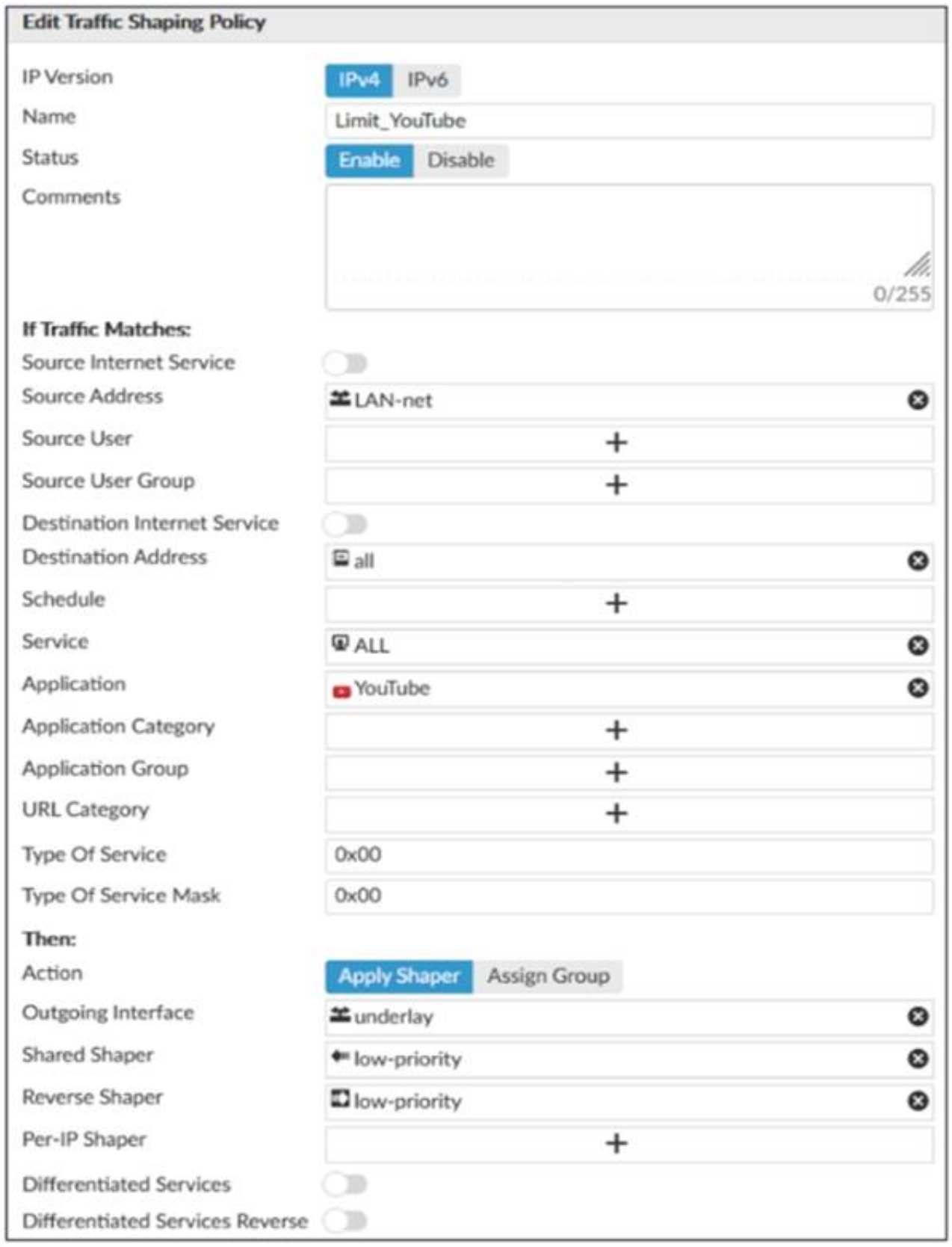

Edit Traffic Shaping Policy
IP Version
IPv4
IPv6
Name
Limit_YouTube
Status
Enable
Disable
Comments
0/255
If Traffic Matches:
Source Internet Service
Source Address
LAN-net
Source User
Source User Group
Destination Internet Service
Destination Address
all
Schedule
Service
ALL
Application
YouTube
Application 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

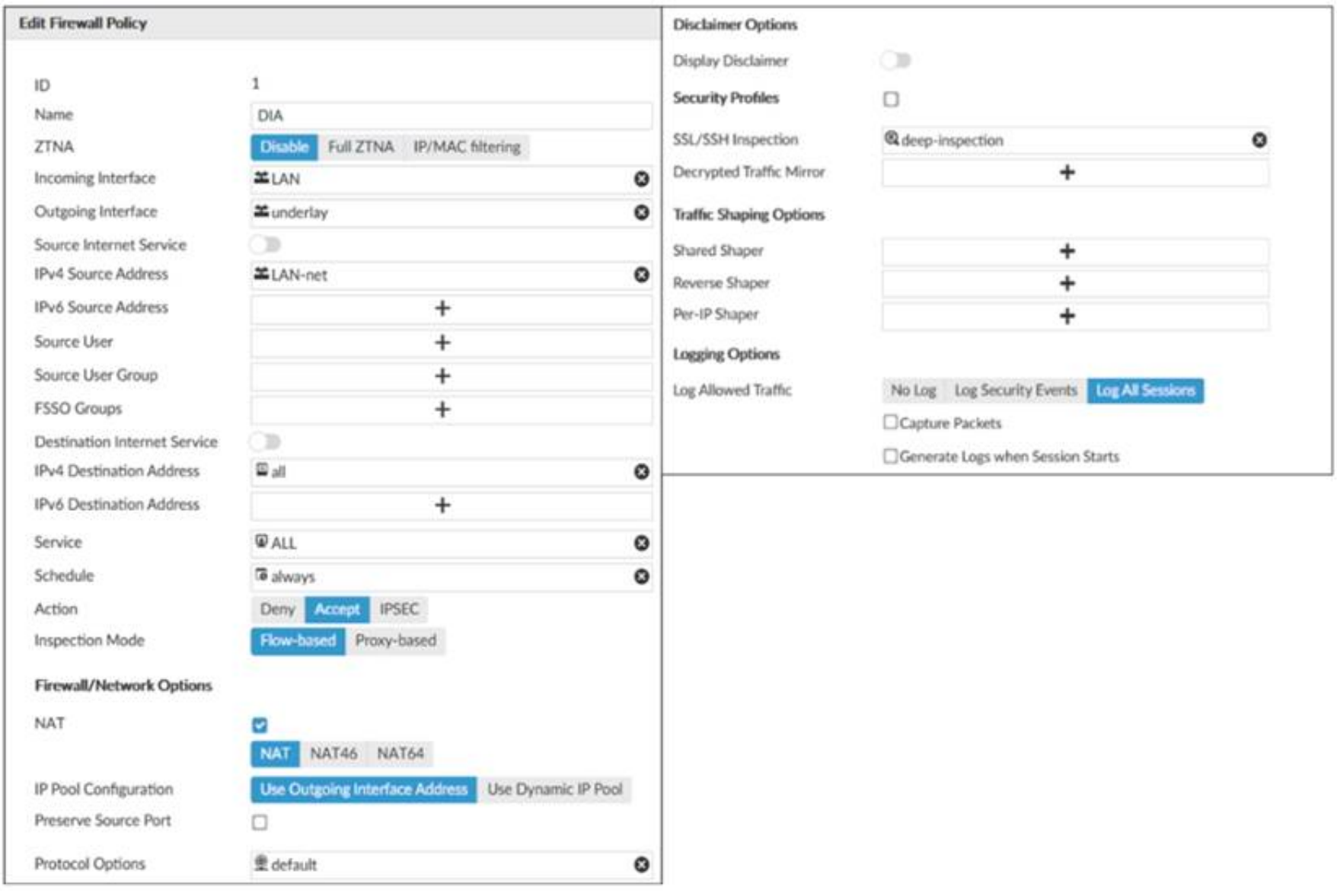
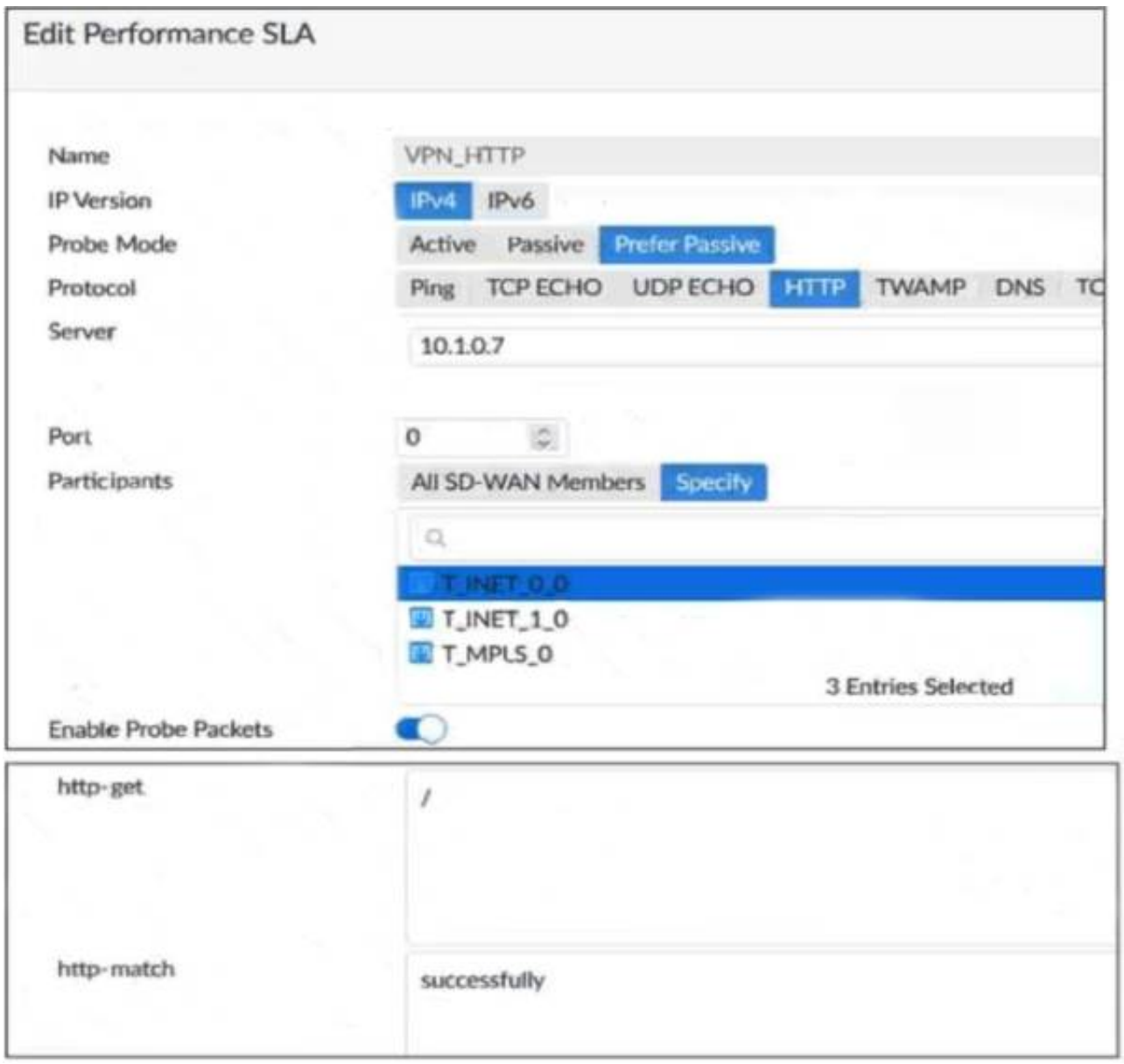

Edit Firewall Policy
ID
1
Name
DIA
ZTNA
Disable
Full ZTNA
IP/MAC filtering
Incoming Interface
LAN
Outgoing Interface
underlay
Source Internet Service
IPv4 Source Address
LAN-net
IPv6 Source Address
Source User
Source User Group
FSSO Groups
Destination Internet Service
IPv4 Destination Address
all
IPv6 Destination Address
Service
ALL
Schedule
always
Action
Deny
Accept
IPSEC
Inspection Mode
Flow-based
Proxy-based
Firewall/Network Options
NAT
NAT
NAT46
NAT64
IP Pool Configuration
Use Outgoing Interface Address
Use Dynamic IP Pool
Preserve Source Port
Protocol Options
default
Disclaimer Options
Display Disclaimer
Security Profiles
SSL/SSH Inspection
deep-inspection
Decrypted Traffic Mirror
Traffic Shaping Options
Shared Shaper
Reverse Shaper
Per-IP Shaper
Logging Options
Log Allowed Traffic
No Log
Log Security Events
Log All Sessions
Capture Packets
Generate Logs when Session Starts

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: B

NEW QUESTION 44
Refer to the exhibit.



Based on the exhibit, which two statements are correct about the health of the selected members? (Choose two.)

A. After FortiGate switches to active mode, FortiGate never fails back to passive monitoring.
B. During passive monitoring, FortiGate can’t detect dead members.
C. FortiGate can offload the traffic that is subject to passive monitoring to hardware.
D. FortiGate passively monitors the member if TCP traffic is passing through the member.

Answer: BD

NEW QUESTION 45
Which two interfaces are considered overlay links? (Choose two.)

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

Answer: BD

NEW QUESTION 48
.....

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