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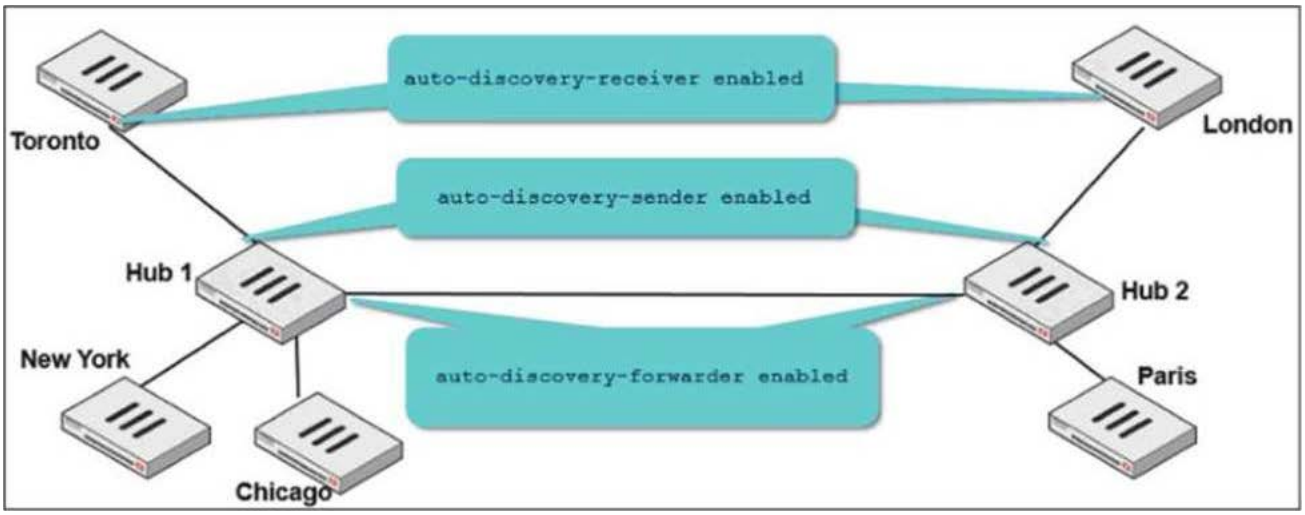
Fortinet

NSE7_SDW-7.0

Fortinet NSE 7 - SD-WAN 7.0

Question: 151

Refer to the exhibits.



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 VP
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.

Answer: A,B,C

Question: 152

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: A,D

Explanation:

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

Question: 153

Refer to the exhibits.

```
# 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
```

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

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: A,B,C

Question: 154

Refer to the exhibit.

```
config vpn ipsec phase1-interface
    edit "T_INET_0_0"
        set type dynamic
        set interface "port1"
        set keylife 28800
        set peertype any
        set net-device disable
        set proposal aes128-sha256
        set add-route enable
        set psksecret ENC
Zv9n4Urfk0W4jj8vWI+KywxBG4ZDT7jWHKd8YaL8j4+pRpYOx/N7mSgc7VL0BW2ZHQUXWJ6zvFxNKktiPYNtA8aP
i6ly7gDx21P/OfKexTQQJzgCGRYzLM8eFTOnK7K6AuX0bFDCpBBhEIdf+03CYBMLwkFZmdU6RsT+qvybblVX+Ioy
HK5EXakpmz5RiltELgZ9Gg==
    next
end
```

Which configuration change is required if the responder FortiGate uses a dynamic routing protocol to exchange routes over IPsec?

A. type must be set to static.
B. mode-cfg must be enabled.
C. exchange-interface-ip must be enabled.
D. add-route must be disabled.

Answer: D

Explanation:

for using "non ike" routes (for example BGP/static and so on) you must do disable the add-route that

inject automatically kernel route based on p2 selectors from the remote site from the SD-WAN_7.2_Study_Guide page 236

Question: 155

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.

â¢ diagnose debug console timestamp enable

â¢ diagnose vpn ike log filter clear

â¢ diagnose vpn ike log filter mdst-addr4 <ip.of.hub> <ip.of.spoke>

â¢ diagnose debug application ike -1

â¢ diagnose debug enable

Question: 156

Refer to the exhibits.

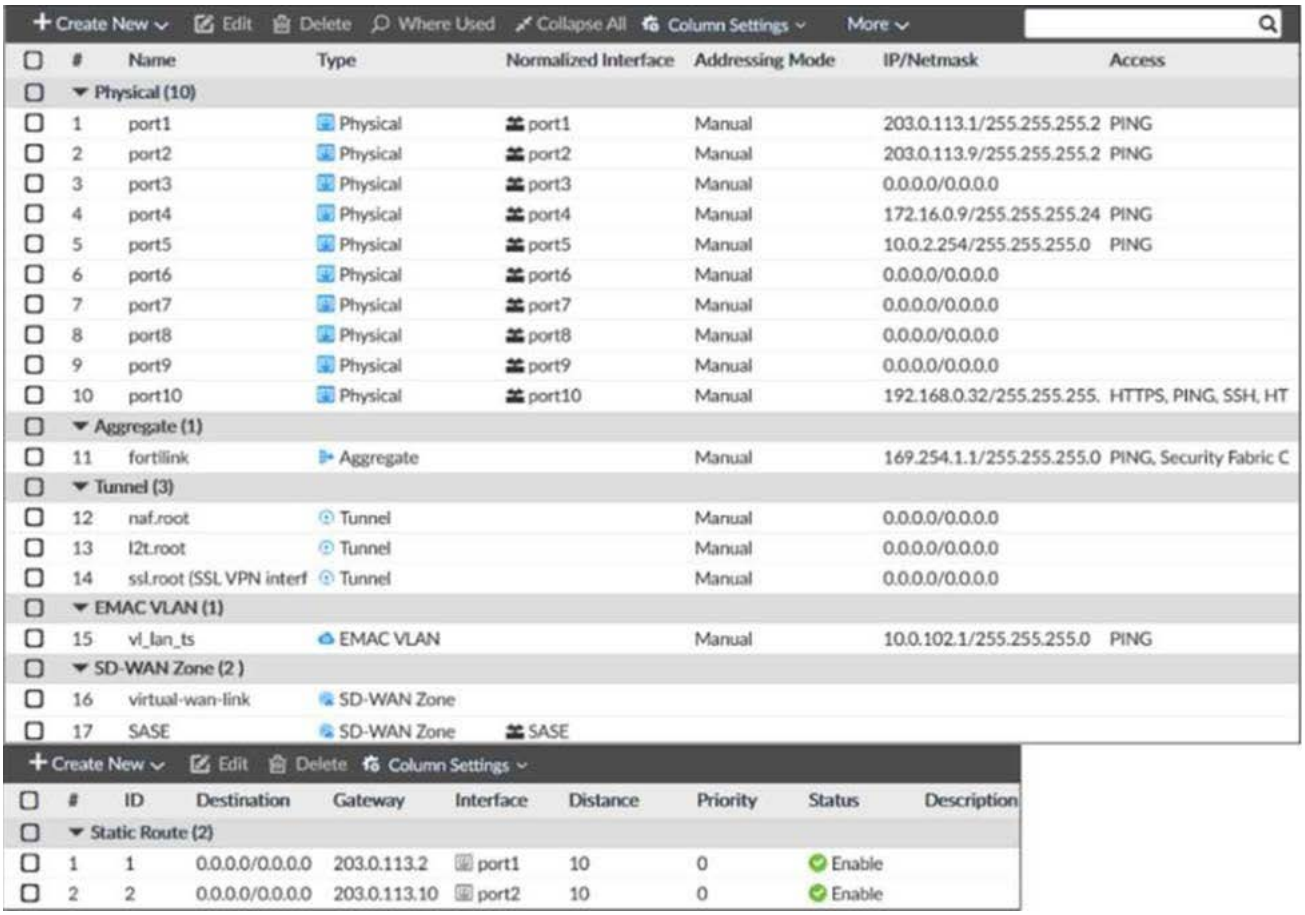


Exhibit B

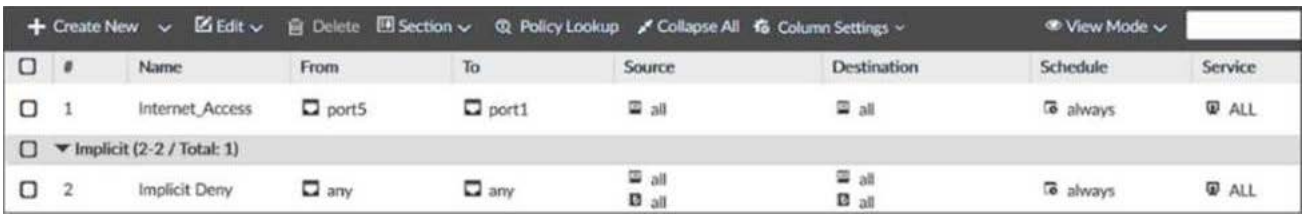


Exhibit A shows the system interface with the static routes and exhibit B shows the firewall policies on the managed FortiGate.

Based on the FortiGate configuration shown in the exhibits, what issue might you encounter when creating an SD-WAN zone for port1 and port2?

A. port1 is assigned a manual IP address.
B. port1 is referenced in a firewall policy.
C. port2 is referenced in a static route.
D. port1 and port2 are not administratively down.

Answer: B

Question: 157

Which two statements are correct when traffic matches the implicit SD-WAN rule? (Choose two.)

A. The sdwan_service_id flag in the session information is 0.

B. All SD-WAN rules have the default setting enabled.
C. Traffic does not match any of the entries in the policy route table.
D. Traffic is load balanced using the algorithm set for the v4-ecmp-mode setting.

Answer: A,C

Explanation:

sdwan_service_id is 0 = match SD-WAN implicit rule, study guide 7.0 page 120, 7.2 page 149 SD-WAN rules internally are interpreted as a Policy route, so when the traffic doesn't match with any policy route, it will be flowing by implict policy.

Question: 158

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: A,C

Explanation:

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

Question: 159

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: A,C,D

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.

Question: 160

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: A,C

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-fmg

Question: 161

Refer to the exhibits.

```
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 MT
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: A,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

Question: 162

Which are two benefits of using CLI templates in FortiManager? (Choose two.)

A. You can reference meta fields.
B. You can configure interfaces as SD-WAN members without having to remove references first.
C. You can configure FortiManager to sync local configuration changes made on the managed device, to the CLI template.
D. You can configure advanced CLI settings.

Answer: A,D

Question: 163

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

Question: 164

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.

Answer: D

Question: 165

Refer to the exhibits.

Exhibit A -

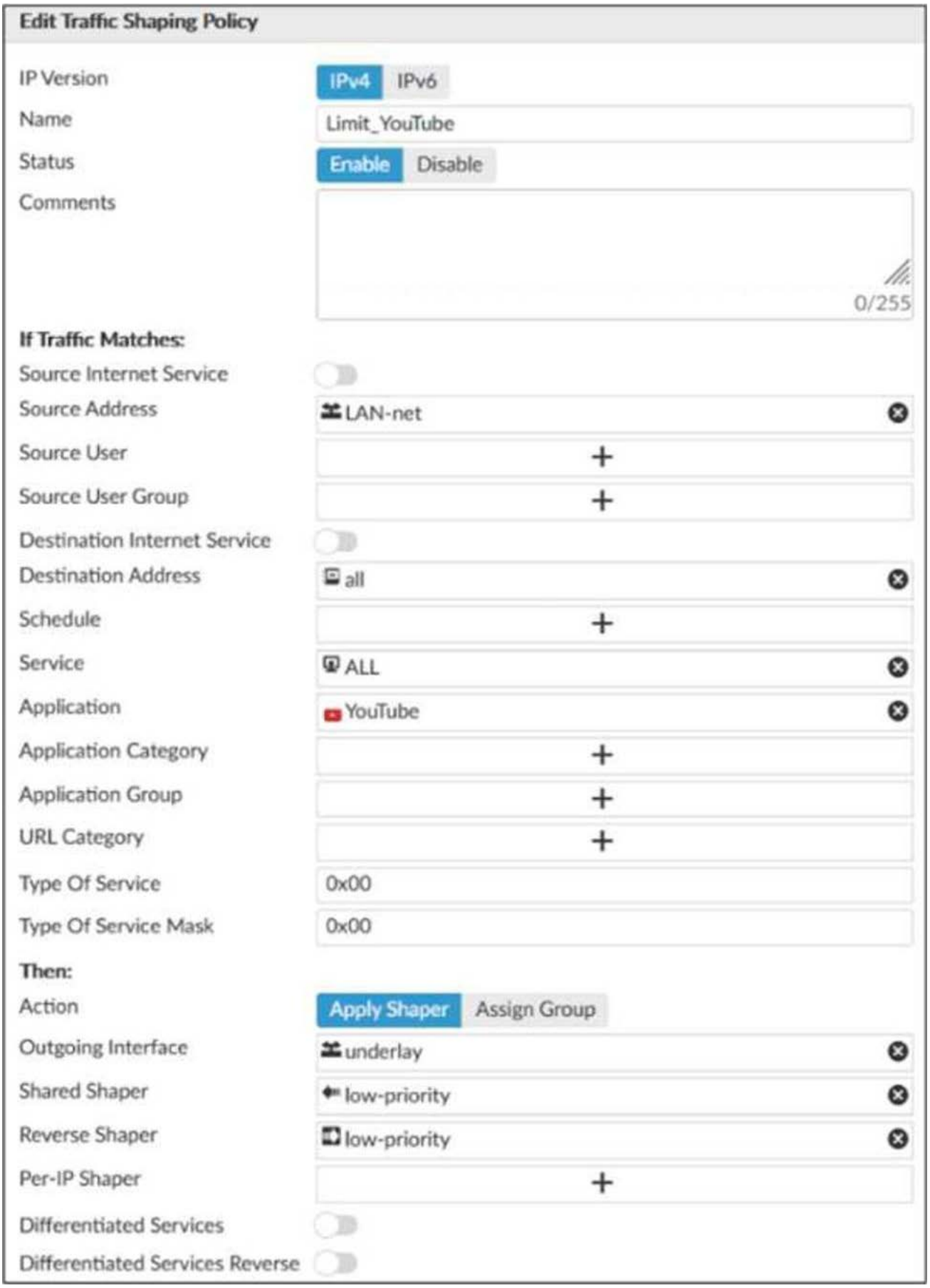

Edit Traffic Shaping Policy
IP Version
IPv4
IPv6
Name
Limit_YouTube
Status
Enable
Disable
Comments
0/255
If Traffic Matches:
Source Internet Service
Source Address
LAN-net
Source User
Source User Group
Destination Internet Service
Destination Address
all
Schedule
Service
ALL
Application
YouTube
Application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

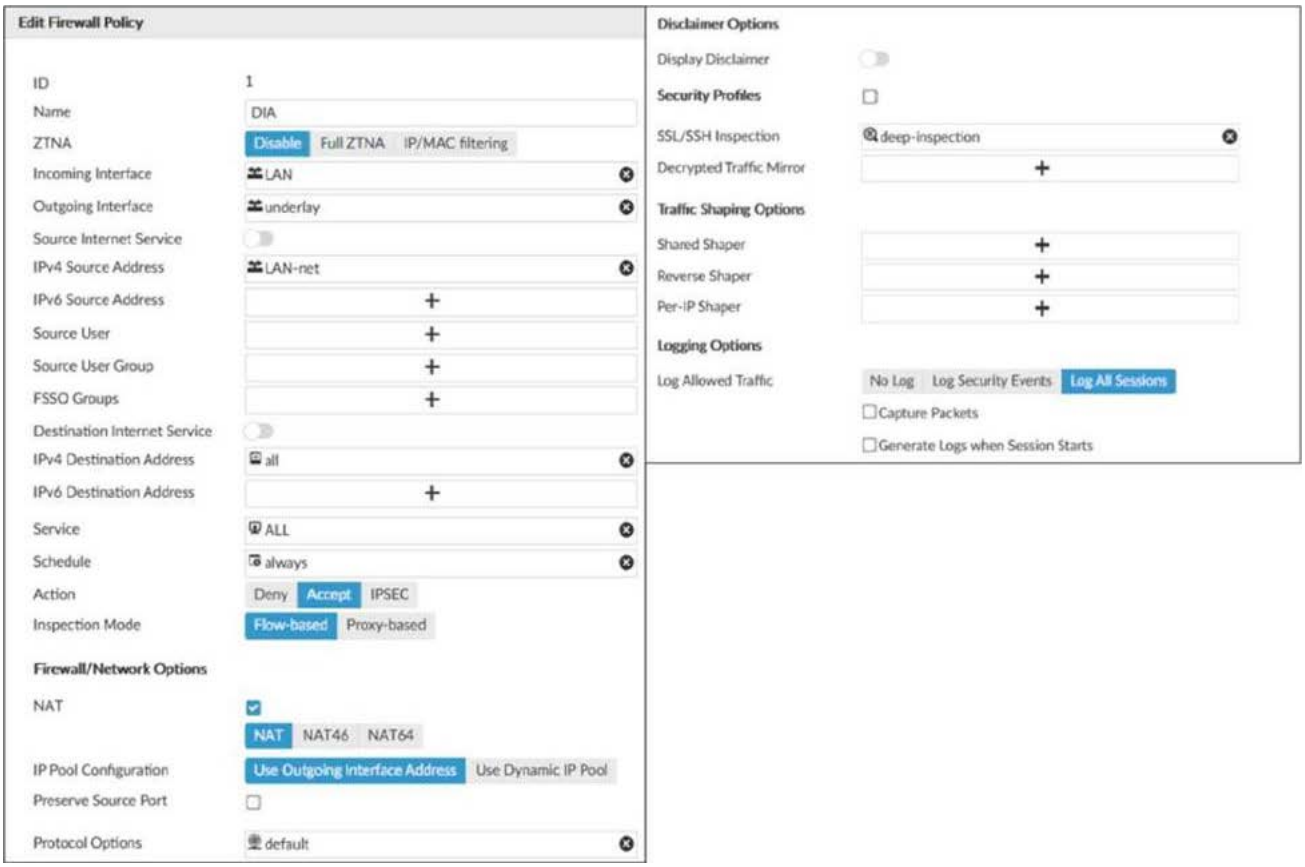


Exhibit A shows the traffic shaping policy and exhibit B shows the firewall policy.

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: B

Question: 166

Refer to the exhibit, which shows the IPsec phase 1 configuration of a spoke.

```
config vpn ipsec phase1-interface
    edit "T_INET_0_0"
        set interface "port1"
        set ike-version 2
        set keylife 28800
        set peertype any
        set net-device disable
        set proposal aes128-sha256 aes256-sha256 aes128gcm-prfsha256 aes256gcm-prfsha384
chacha20poly1305-prfsha256
        set comments "[created by FMG VPN Manager]"
        set idle-timeout enable
        set idle-timeoutinterval 5
        set auto-discovery-receiver enable
        set remote-gw 100.64.1.1
        set psksecret ENC
6D5rVsaK1MeAyVYt1z95BS24Psew761wY023hnFVviwb6deItSc51tCa+iNYhujT8gycfD4+WuszpmuIv8rRzrVh
7DFkHaW2auAAprQ0dHUfaCzjOhME7mPw+8he2xB7Edb9ku/nZEHb0cKLkKYJc/p9J9IMweV2lZUgFjvIpXNxHxpH
LReOFShoH01SPFKz5IYCVA==
    next
end
```

What must you configure on the IPsec phase 1 configuration for ADVPN to work with SD-WAN?

A. You must set ike-version to 1.
B. You must enable net-device.
C. You must enable auto-discovery-sender.
D. You must disable idle-timeout.

Answer: B

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