NSE7_SDW-7.2 Dumps

Fortinet NSE 7 - SD-WAN 7.2

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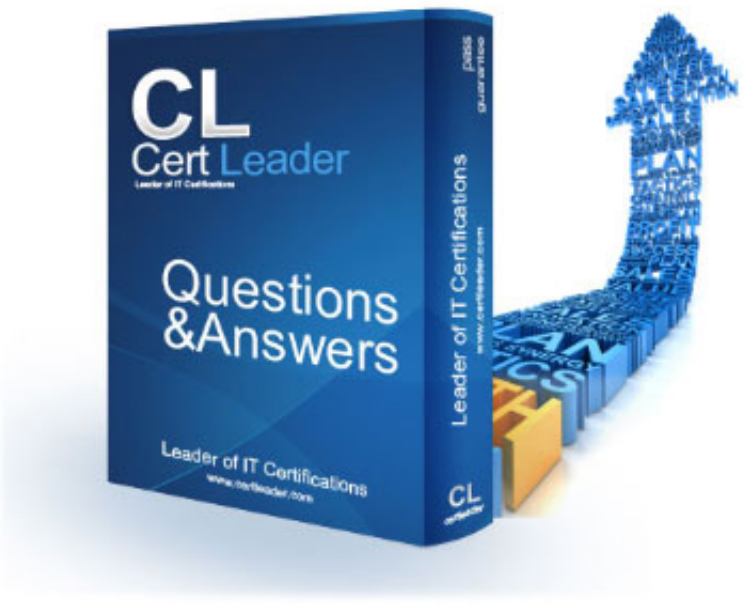


NEW QUESTION 1
Refer to the exhibit.

```
branch1_fgt # diagnose firewall proute list
list route policy info(vf=root):

id=1 dscp_tag=0xff 0xff flags=0x0 tos=0x00 tos_mask=0x00 protocol=17 sport=0-65535 iif=7
dport=53 path(1) oif=3(port1)
source wildcard(1): 0.0.0.0/0.0.0.0
destination wildcard(1): 4.2.2.1/255.255.255.255
hit_count=0 last_used=2022-03-25 10:53:26

id=2131165185(0x7f070001) vwl_service=1(Critical-DIA) vwl_mbr_seq=1 2 dscp_tag=0xff 0xff
flags=0x0 tos=0x00 tos_mask=0x00 protocol=0 sport=0-65535 iif=0 dport=1-65535 path(2)
oif=3(port1) oif=4(port2)
source(1): 10.0.1.0-10.0.1.255
destination wildcard(1): 0.0.0.0/0.0.0.0
internet service(3): GoToMeeting(4294836966,0,0,0, 16354)
Microsoft.Office.365.Portal(4294837474,0,0,0, 41468) Salesforce(4294837976,0,0,0, 16920)
hit_count=0 last_used=2022-03-24 12:18:16

id=2131165186(0x7f070002) vwl_service=2(Non-Critical-DIA) 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
path(1) oif=4(port2)
source(1): 10.0.1.0-10.0.1.255
destination wildcard(1): 0.0.0.0/0.0.0.0
internet service(2): Facebook(4294836806,0,0,0, 15832) Twitter(4294838278,0,0,0, 16001)
hit_count=0 last_used=2022-03-24 12:18:16

id=2131165187(0x7f070003) 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 path(1)
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=2022-03-25 10:58:12
```

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

A. There is more than one SD-WAN rule configured.
B. The SD-WAN rules take precedence over regular policy routes.
C. The all_rules rule represents the implicit SD-WAN rule.
D. Entry 1(id=1) is a regular policy route.

Answer: AD

NEW QUESTION 2
Which diagnostic command can you use to show the SD-WAN rules, interface information, and state?

A. diagnose sys sdwan service
B. diagnose sys sdwan route-tag-list
C. diagnose sys sdwan member
D. diagnose sys sdwan neighbor

Answer: A

NEW QUESTION 3
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

NEW QUESTION 4
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 5
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/p9J9IMweV21ZUgFjvIpXNxHxpH
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

NEW QUESTION 6
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.

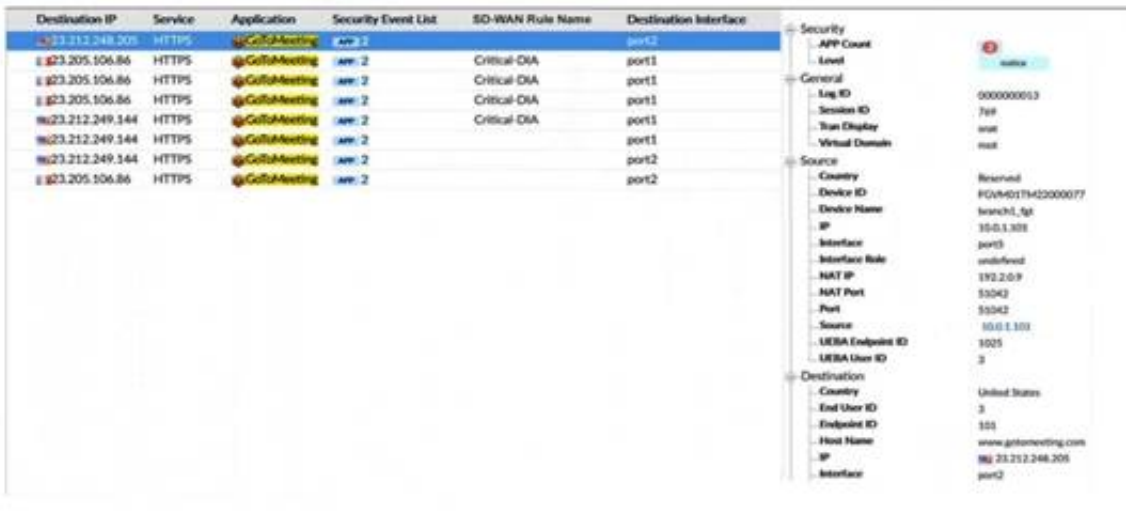
Answer: AD

NEW QUESTION 7
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:
Study guide 7.2 Page 191

NEW QUESTION 8
Refer to the exhibit.

```
branch1_fgt # diagnose sys sdwan service 3

Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
  Gen(2), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(priority), link-cost-factor(packet-
loss), link-cost-threshold(0), heath-check(VPN_PING)
  Members(3):
    1: Seq_num(3 T_INET_0_0), alive, packet loss: 2.000%, selected
    2: Seq_num(4 T_MPLS_0), alive, packet loss: 4.000%, selected
    3: Seq_num(5 T_INET_1_0), alive, packet loss: 12.000%, 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 link-cost-factor packet-loss
        set link-cost-threshold 0
        set priority-members 5 3 4
    next
end
```

The exhibit shows the SD-WAN rule status and configuration.
Based on the exhibit, which change in the measured packet loss will make T_INET_1_0 the new preferred member?

A. When all three members have the same packet loss.
B. When T_INET_0_0 has 4% packet loss.
C. When T_INET_0_0 has 12% packet loss.
D. When T_INET_1_0 has 4% packet loss.

Answer: D

NEW QUESTION 9
Which two statements about SD-WAN central management are true? (Choose two.)

A. It does not allow you to monitor the status of SD-WAN members.
B. It is enabled or disabled on a per-ADOM basis.
C. It is enabled by default.
D. It uses templates to configure SD-WAN on managed devices.

Answer: BD

NEW QUESTION 10
Refer to the exhibit.

```
session info: proto=6 proto_state=11 duration=242 expire=3349 timeout=3600
flags=00000000 socktype=0 sockport=0 av_idx=0 use=4
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=log dirty may_dirty ndr f00 app_valid
statistic(bytes/packets/allow_err): org=3421/20/1 reply=3777/17/1 tuples=3
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
orgin->sink: org pre->post, reply pre->post dev=7->3/3->7 gwy=0.0.0.0/0.0.0.0
hook=post dir=org act=snat 10.0.1.101:34676->128.66.0.1:22(192.2.0.1:34676)
hook=pre dir=reply act=dnat 128.66.0.1:22->192.2.0.1:34676(10.0.1.101:34676)
hook=post dir=reply act=noop 128.66.0.1:22->10.0.1.101:34676(0.0.0.0:0)
pos/(before,after) 0/(0,0), 0/(0,0)
misc=0 policy_id=2 pol_uuid_idx=14721 auth_info=0 chk_client_info=0 vd=0
serial=000032d9 tos=ff/ff app_list=2000 app=16060 url_cat=0
sdwan_mbr_seq=1 sdwan_service_id=2
rpdb_link_id=ff000002 rpdb_svc_id=0 ngfwid=n/a
npu_state=0x001008
```

Which statement explains the output shown in the exhibit?

A. FortiGate performed standard FIB routing on the session.
B. FortiGate will not re-evaluate the session following a firewall policy change.
C. FortiGate used 192.2.0.1 as the gateway for the original direction of the traffic.
D. FortiGate must re-evaluate the session due to routing change.

Answer: D

Explanation:
The snat-route-change option is enabled by default. This option enables FortiGate to re- evaluate the routing table and select a new egress interface if the next hop IP address changes. This option only applies to sessions in the dirty state. Sessions in the log state are not affected by routing changes.

NEW QUESTION 10
Refer to the exhibits.
Exhibit A

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 11
Refer to the exhibits.

Exhibit A

```
branch1_fgt # diagnose sys sdwan service 1

Service(1): Address Mode(IPV4) flags=0x200 use-shortcut-sla
  Gen(8), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(manual)
  Service disabled caused by no destination.
  Members(2):
    1: Seq_num(4 T_INET_1_0), alive, selected
    2: Seq_num(5 T_MPLS_0), alive, selected
  Src address(1):
        10.0.1.0-10.0.1.255

branch1_fgt # get router info bgp community 65000:10
VRF 0 BGP table version is 3, local router ID is 10.0.1.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
              S Stale
Origin codes: i - IGP, e - EGP, ? - incomplete

   Network          Next Hop            Metric LocPrf Weight RouteTag Path
*>i10.1.0.0/24      10.202.1.254             0    100      0        1 i <-/1>
* i                 10.203.1.254             0    100      0        1 i <-/->

Total number of prefixes 1
```

Exhibit B

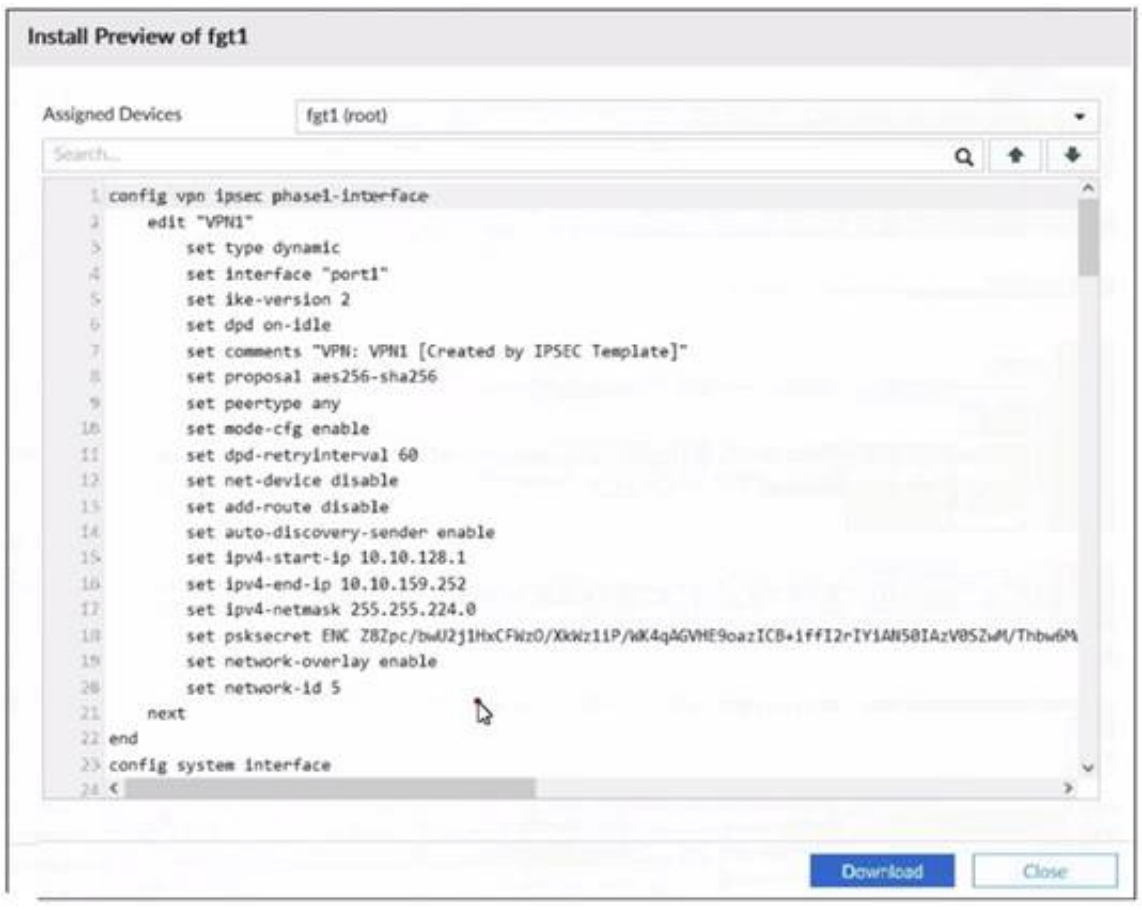
```
branch1_tgt (1) # show
config service
    edit 1
        set name "Corp"
        set route-tag 10
        set src "LAN-net"
        set priority-zone "overlay"
    next
end

config router bgp
...
    config neighbor
        edit "10.202.1.254"
            set soft-reconfiguration enable
            set interface "T_INET_1_0"
            set remote-as 65000
            set route-map-in "dc1-lan-rm"
            set update-source "T_INET_1_0"
        next
        edit "10.203.1.254"
            set soft-reconfiguration enable
            set interface "T_MPLS_0"
            set remote-as 65000
            set route-map-in "dc1-lan-rm"
            set update-source "T_MPLS_0"
        next
    end
...
config router route-map
    edit "dc1-lan-rm"
        config rule
            edit 1
                set match-community "dc1-lan-cl"
                set set-route-tag 1
            next
        end
    next
end
```

Exhibit A shows the SD-WAN rule status and the learned BGP routes with community 65000:10.
Exhibit B shows the SD-WAN rule configuration, the BGP neighbor configuration, and the route map configuration.
The administrator wants to steer corporate traffic using routes tags in the SD-WAN rule ID 1.
However, the administrator observes that the corporate traffic does not match the SD-WAN rule ID 1.
Based on the exhibits, which configuration change is required to fix issue?

A. In the dcl-lab-rm route map configuration, set set-route-tag to 10.
B. In SD-WAN rule ID 1, change the destination to use ISDB entries.
C. In the BGP neighbor configuration, apply the route map dcl-lab-rm in the outbound direction.
D. In the dcl-lab-rm route map configuration, unset match-community.

Answer: C

NEW QUESTION 13
Refer to the exhibit.



An administrator used the SD-WAN overlay template to prepare an IPsec configuration for a hub-and-spoke SD-WAN topology. The exhibit shows the installation preview for one FortiGate device. In the exhibit, which statement best describes the configuration applied to the FortiGate device?

A. It is a hub devic
B. It can send ADVPN shortcut offers.
C. It is a spoke device that establishes dynamic IPsec tunnels to the hu
D. The subnet range is 10.10.128.0/23.
E. It is a spoke device that establishes dynamic IPsec tunnels to the hu
F. It can send ADVPN shortcut requests.
G. It is a hub device and will automatically discover the spoke devices that are in the SD- WAN topology.

Answer: C

Explanation:
According to the SD-WAN 7.2 Study Guide, the SD-WAN overlay template simplifies the configuration of IPsec tunnels in a hub-and-spoke topology. The template defines the following parameters:
? type: dynamic for spokes, static for hubs
? interface: the WAN interface to use for the IPsec tunnel
? network-overlay: enable for spokes, disable for hubs
? network-id: a unique identifier for each spoke
? auto-discovery-sender: enable for hubs, disable for spokes
? auto-discovery-receiver: enable for spokes, disable for hubs Based on the exhibit, the FortiGate device has the following configuration:
? type: dynamic
? interface: port1
? network-overlay: enable
? network-id: 5
? auto-discovery-sender: disable
? auto-discovery-receiver: enable
Therefore, the FortiGate device is a spoke that establishes dynamic IPsec tunnels to the hub. It also has the network-overlay and auto-discovery-receiver options enabled, which means it can send ADVPN shortcut requests to other spokes when it receives a shortcut offer from the hub

NEW QUESTION 14
Refer to the Exhibits:

Exhibit A, which shows the SD-WAN performance SLA and exhibit B shows the health of the participating SD-WAN members.
Based on the exhibits, which statement is correct?

A. The dead member interface stays unavailable until an administrator manually brings the interface back.
B. Port2 needs to wait 500 milliseconds to change the status from alive to dead.
C. Static routes using port2 are active in the routing table.
D. FortiGate has not received three consecutive requests from the SLA server configured for port2.

Answer: C

NEW QUESTION 16
Refer to the exhibit.

Exhibit A

```
fgt # show vpn ipsec phase1-interface T_INET_1
config vpn ipsec phase1-interface
    edit "T_INET_1"
        set type dynamic
        set interface "port2"
        set ike-version 2
        set keylife 28800
        set peertype any
        set net-device disable
        set proposal aes128-sha256
        set add-route disable
        set auto-discovery-sender enable
        set psksecret ENC MXtFGKOxLV+x6p3e9Xq2HGJoU+QOgg5YMqiXb2T73fZpSXS/
        jv9oshNeQiNEjOJEtuqqD8mAw7G2ILT1sR3/ihAaAY4tvjveS+9CuTnO0J2tuddoN9
        uz4vaBTNbNrh3/EhbJytsCag==
    next
end
```

Exhibit B

```
fgt # diag vpn tunnel list name T_INET_1_0
list ipsec tunnel by names in vd 0
------------------------------------------------------
name=T_INET_1_0 ver=2 serial=a 100.64.1.9:0->192.2.0.9:0 tun_id=192.2.0.9 tun_id6=::10.0.0.10
dst_mtu=0 dpd-link=on weight=1
bound_if=4 lgwy=static/1 tun=intf mode=dial_inst/3 encap=none/74408 options[122a8]=npu rgwy-chg
frag-rfc run_state=0 role=primary acc
ept_traffic=1 overlay_id=0
parent=T_INET_1 index=0
proxyid_num=1 child_num=0 refcnt=6 ilast=0 olast=42955943 ad=/0
stat: rxp=32 txp=0 rxb=1280 txb=0
dpd: mode=on-demand on=1 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
fec: egress=0 ingress=0
proxyid=T_INET_1_0 proto=0 sa=1 ref=2 serial=1
src: 0:0.0.0.0-255.255.255.255:0
dst: 0:10.0.1.0-10.0.1.255:0
SA: ref=3 options=20603 type=00 soft=0 mtu=1280 expire=1774/0B replaywin=2048
seqno=1 esn=0 replaywin_lastseq=00000021 qat=0 rekey=0 hash_search_len=1
life: type=01 bytes=0/0 timeout=1791/1800
dec: spi=7c176e24 esp=aes key=16 8547efb42d148c6692fb2af0d01ff12d
ah=sha1 key=20 f0d3ac8192d2e79fbbe29162f9ccf406f1a161b5
enc: spi=809f9d49 esp=aes key=16 cb67f6d5f6a1f9fe5ab38b953dd4782f
ah=sha1 key=20 d0182dfe827a4785d9493d46e3907d49465391fb
dec:pkts/bytes=64/2560, enc:pkts/bytes=0/0
npu_flag=00 npu_rgwy=192.2.0.9 npu_lgwy=100.64.1.9 npu_selid=6 dec_npuid=0 enc_npuid=0
```

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

A. FortiGate does not install IPsec static routes for remote protected networks in the routing tabl
B. Most Voted
C. The phase 1 configuration supports the network-overlay settin
D. Most Voted
E. FortiGate facilitated the negotiation of the T_INET_1_0_0 ADVPN shortcut over T_INET_1_0.
F. Dead peer detection is disabled.

Answer: AC

NEW QUESTION 17
Refer to the exhibits.

Exhibit A

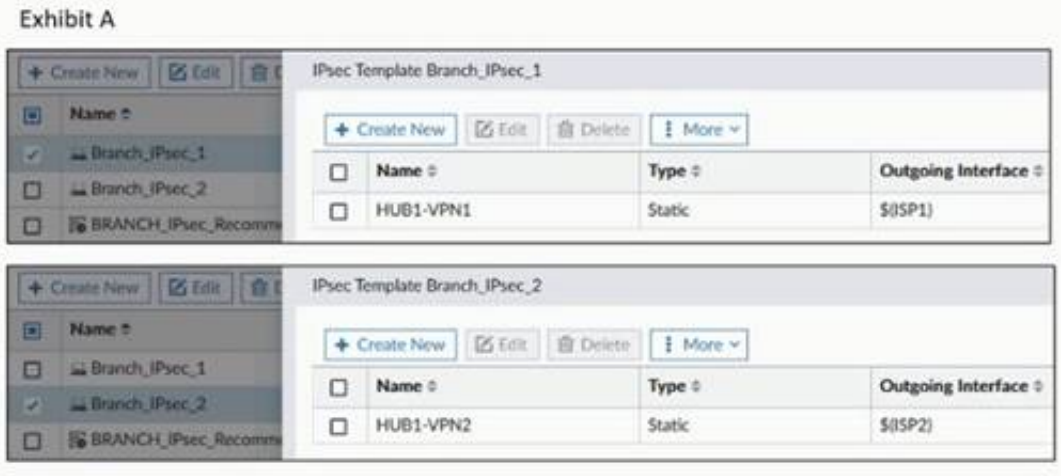


Exhibit B

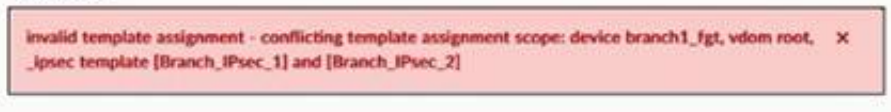


Exhibit A shows two IPsec templates to define Branch_IPsec_1 and Branch_IPsec_2. Each template defines a VPN tunnel.
Exhibit B shows the error message that FortiManager displayed when the administrator tried to assign the second template to the FortiGate device.
Which statement best explain the cause for this issue?

A. You can assign only one template with a tunnel of fype static to each FortiGate device
B. You can define only one IPsec tunnel from branch devices to HUB1.
C. You can assign only one IPsec template to each FortiGate device.
D. You should review the branch1_fgt configuration for the already configured tunnel with the name HUB1-VPN2.

Answer: C

Explanation:
The error message in Exhibit B indicates a conflicting template assignment. This occurs because FortiManager does not allow the assignment of multiple IPsec templates that define VPN tunnels with the same name or settings to the same FortiGate device. The conflict arises from trying to assign a second IPsec template to a device that already has one assigned. References: This is based on Fortinet's best practices and administrative guidelines which state that each FortiGate device should be assigned a unique IPsec template to avoid configuration conflicts.

NEW QUESTION 19
Refer to the exhibit.

```
config system interface
    edit "port2"
        set vdom "root"
        set ip 192.2.0.9 255.255.255.248
        set allowaccess ping
        set type physical
        set role wan
        set snmp-index 2
        set preserve-session-route enable
    next
end
```

Based on the exhibit, which two actions does FortiGate perform on traffic passing through port2? (Choose two.)

A. FortiGate does not change the routing information on existing sessions that use a valid gateway, after a route change.
B. FortiGate performs routing lookups for new sessions only, after a route change.
C. FortiGate always blocks all traffic, after a route change.
D. FortiGate flushes all routing information from the session table, after a route change.

Answer: AB

NEW QUESTION 24
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. The zero-touch provisioning process has completed internally, behind FortiGate.
D. FortiGate has obtained a configuration from the platform template in FortiGate cloud.
E. A factory reset performed on FortiGate.

Answer: AC

NEW QUESTION 28
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 31
Which statement about using BGP for ADVPN is true?

A. You must use BGP to route traffic for both overlay and underlay links.
B. You must configure AS path prepending.
C. You must configure BGP communities.
D. IBGP is preferred over EBGP, because IBGP preserves next hop information.

Answer: D

Explanation:
ADVPN is a technology that allows dynamic creation of IPsec tunnels between branch sites without requiring pre-configured policies or keys. BGP is a routing protocol that can be used to exchange routes between ADVPN peers. IBGP is a type of BGP that runs between routers in the same autonomous system (AS), while EBGP is a type of BGP that runs between routers in different ASes. IBGP is preferred over EBGP for ADVPN, because IBGP preserves the next hop information of the routes, which is needed to establish the IPsec tunnels. EBGP changes the next hop information to the EBGP peer address, which may not be reachable by the ADVPN peers. Therefore, using IBGP for ADVPN avoids the need to configure additional static routes or redistribute routes between BGP and another routing protocol. References = ADVPN with BGP as the routing protocol, ADVPN, SD-WAN self-healing with BGP, Technical Tip: ADVPN with BGP as the routing protocol
The statement that IBGP is preferred over EBGP for ADVPN because IBGP preserves next hop information (D) is true. In a typical ADVPN deployment, it's beneficial to maintain next hop information across the network to ensure proper routing and optimal path selection. References: This understanding comes from my knowledge of Fortinet's SD-WAN and ADVPN configurations, where BGP's behavior in terms of next hop preservation is a key consideration.

NEW QUESTION 35
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 40
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 45
Refer to the exhibits. Exhibit A -

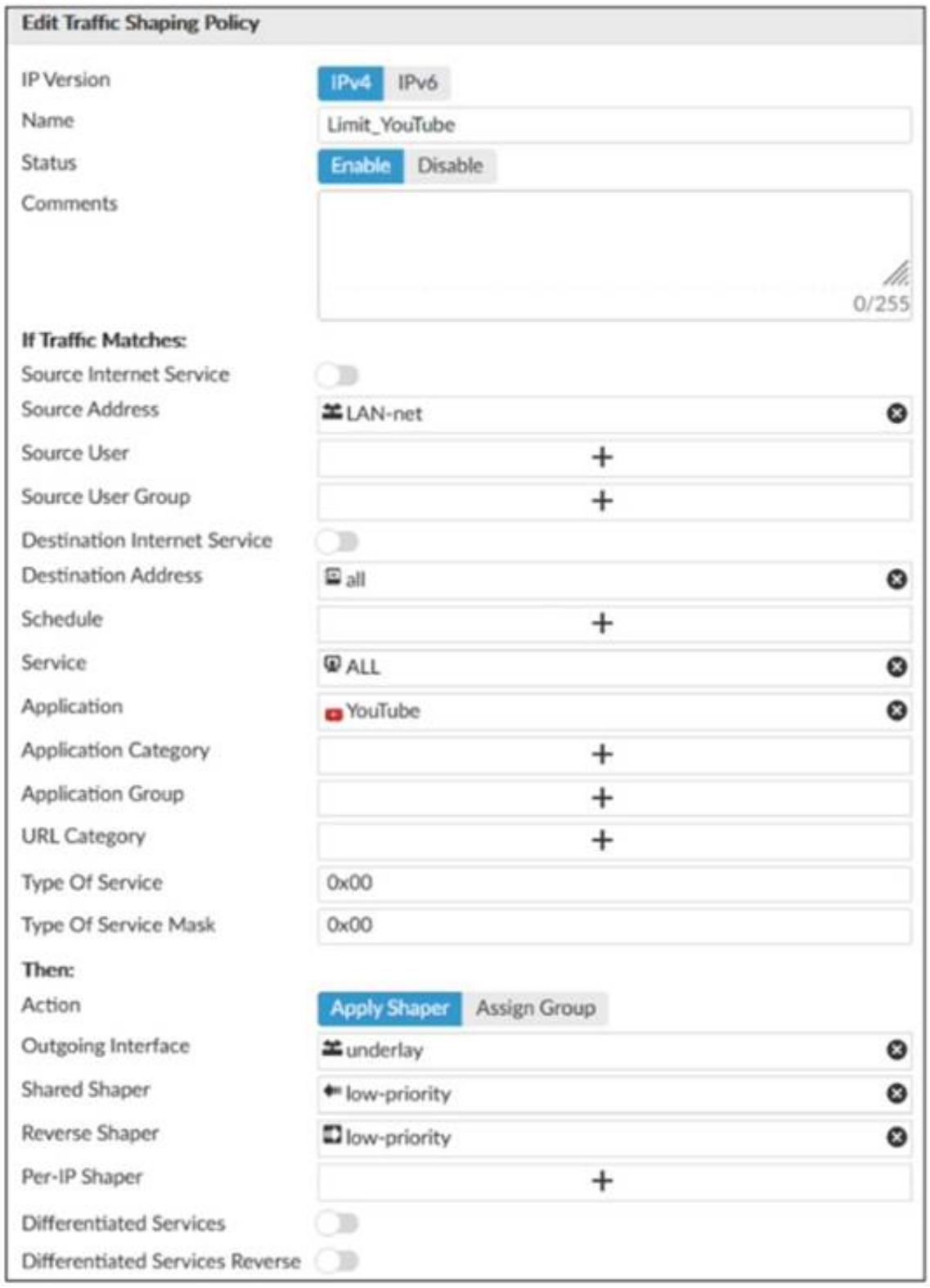


Exhibit B -

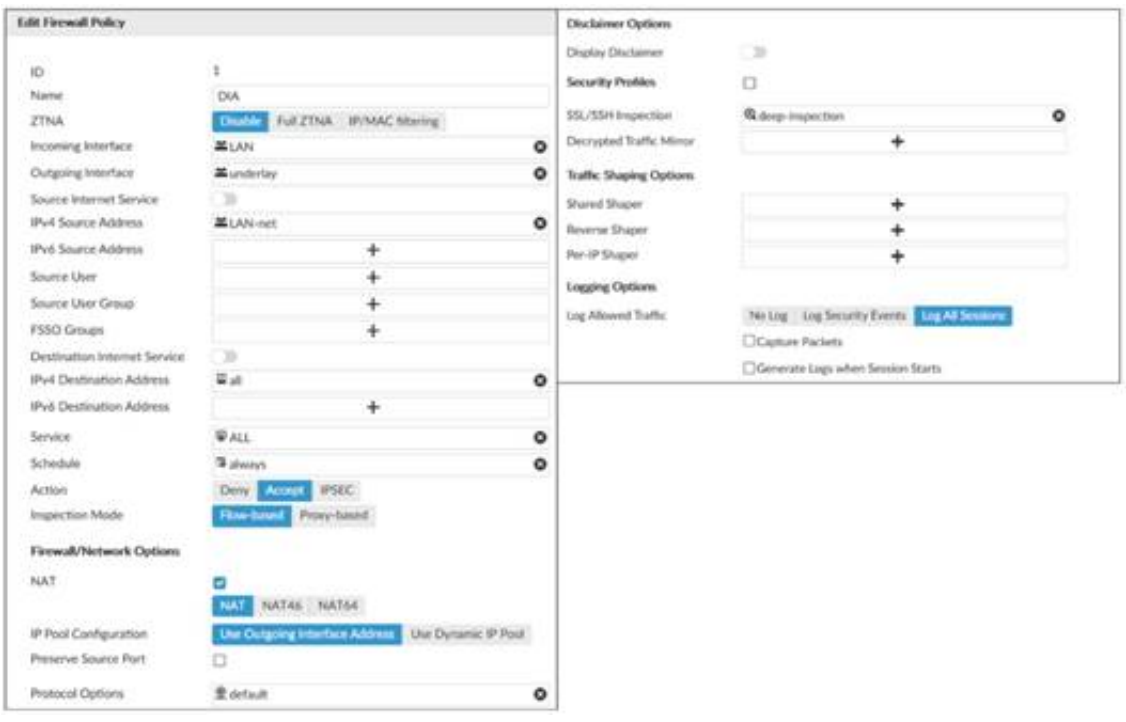


Exhibit A shows the traffic shaping policy and exhibit B shows the firewall policy.
The administrator wants FortiGate to limit the bandwidth used by YouTube. When testing, the administrator determines that FortiGate does not apply traffic shaping on YouTube traffic.
Based on the policies shown in the 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 49
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

NEW QUESTION 51
What are two advantages of using an IPsec recommended template to configure an IPsec tunnel in an hub-and-spoke topology? (Choose two.)

A. It ensures consistent settings between phase1 and phase2.
B. It guides the administrator to use Fortinet recommended settings.
C. It automatically install IPsec tunnels to every spoke when they are added to the FortiManager ADOM.
D. The VPN monitor tool provides additional statistics for tunnels defined with an IPsec recommended template.

Answer: AB

Explanation:
The use of an IPsec recommended template offers the advantage of ensuring consistent settings between phase1 and phase2 (A), which is essential for the stability and security of the IPsec tunnel. Additionally, it guides the administrator to use Fortinet's recommended settings (B), which are designed to optimize performance and security based on Fortinet's best practices. References: The benefits of using IPsec recommended templates are outlined in Fortinet's SD-WAN documentation, which emphasizes the importance of consistency and adherence to recommended configurations.

NEW QUESTION 54
Refer to the exhibit.

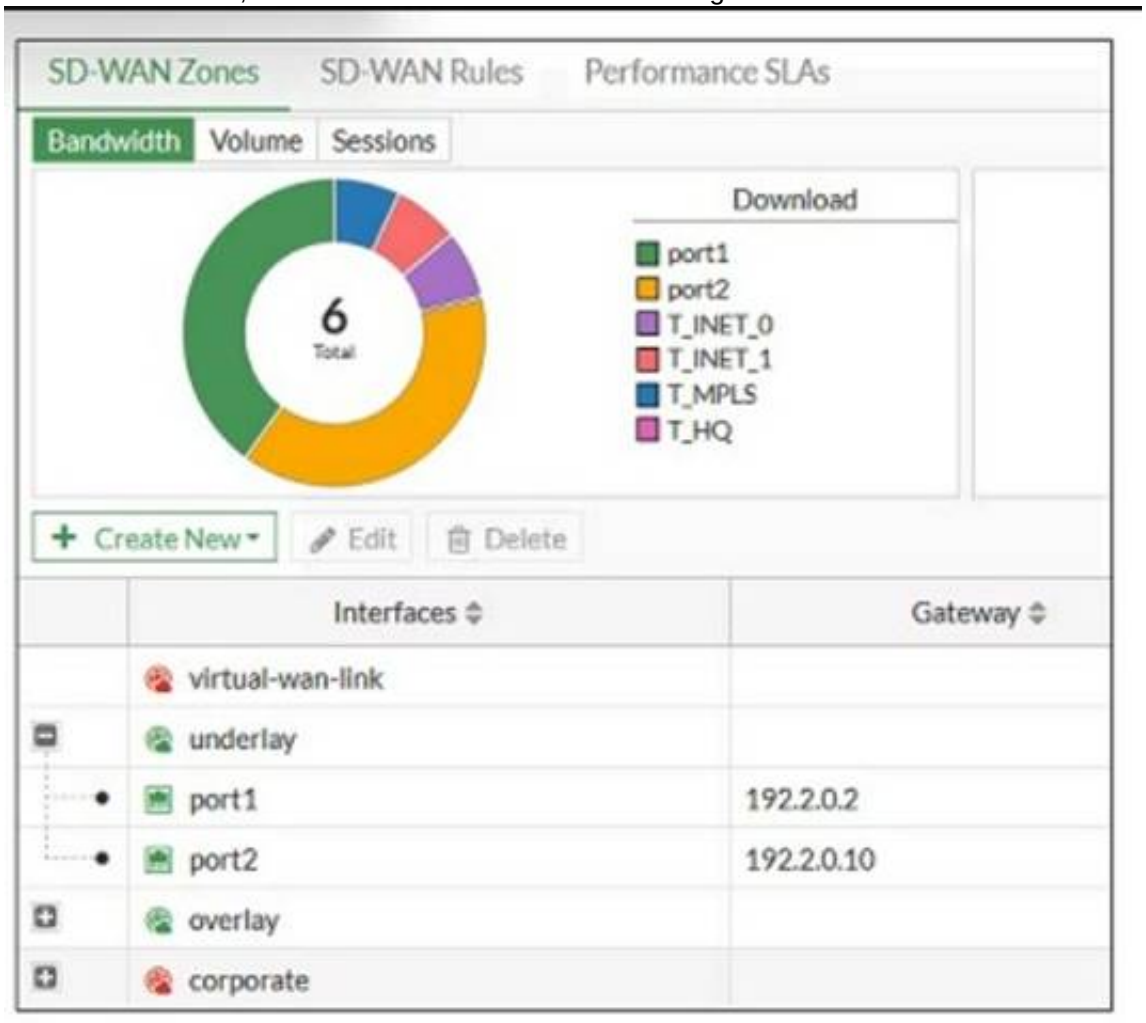
```
config system virtual-wan-link
    set status enable
    set load-balance-mode source-ip-based
    config members
        edit 1
                set interface "port1"
                set gateway 100.64.1.254
                set source 100.64.1.1
                set cost 15
        next
        edit 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 58
Refer to the exhibit, which shows an SD-WAN zone configuration on the FortiGate GUI.



Based on the exhibit, which statement is true?

A. You can delete the virtual-wan-link zone because it contains no member.
B. The corporate zone contains no member.
C. You can move port1 from the underlay zone to the overlay zone.
D. The overlay zone contains four members.

Answer: B

Explanation:
Based on the exhibit, the "corporate" zone contains no member (B). In the FortiGate GUI, zones without members do not display any interfaces listed under them, which is the case for the corporate zone in the exhibit. References: This conclusion is based on standard Fortinet GUI interpretation and the operational logic of SD-WAN zones as per Fortinet's guidelines and user interface standards.

NEW QUESTION 62
Refer to the exhibit.

```
id=20085 trace_id=847 func=print_pkt_detail line=5428 msg="vd-root:0 received a
packet(proto=6, 10.1.10.1:33920->74.125.195.93:443) from port3. flag [.], seq
2018554516, ack 4141536963, win 2238"
id=20085 trace_id=847 func=resolve_ip_tuple_fast line=5508 msg="Find an existing
session, id-000008c1, original direction"
id=20085 trace_id=847 func=shaper_handler line=821 msg="exceeded shaper limit, drop"
```

Which conclusion about the packet debug flow output is correct?

A. The original traffic exceeded the maximum packets per second of the outgoing interface, and the packet was dropped.
B. The reply traffic exceeded the maximum bandwidth configured in the traffic shaper, and the packet was dropped.
C. The original traffic exceeded the maximum bandwidth of the outgoing interface, and the packet was dropped.
D. The original traffic exceeded the maximum bandwidth configured in the traffic shaper, and the packet was dropped.

Answer: D

NEW QUESTION 65
Refer to the exhibits. Exhibit A -

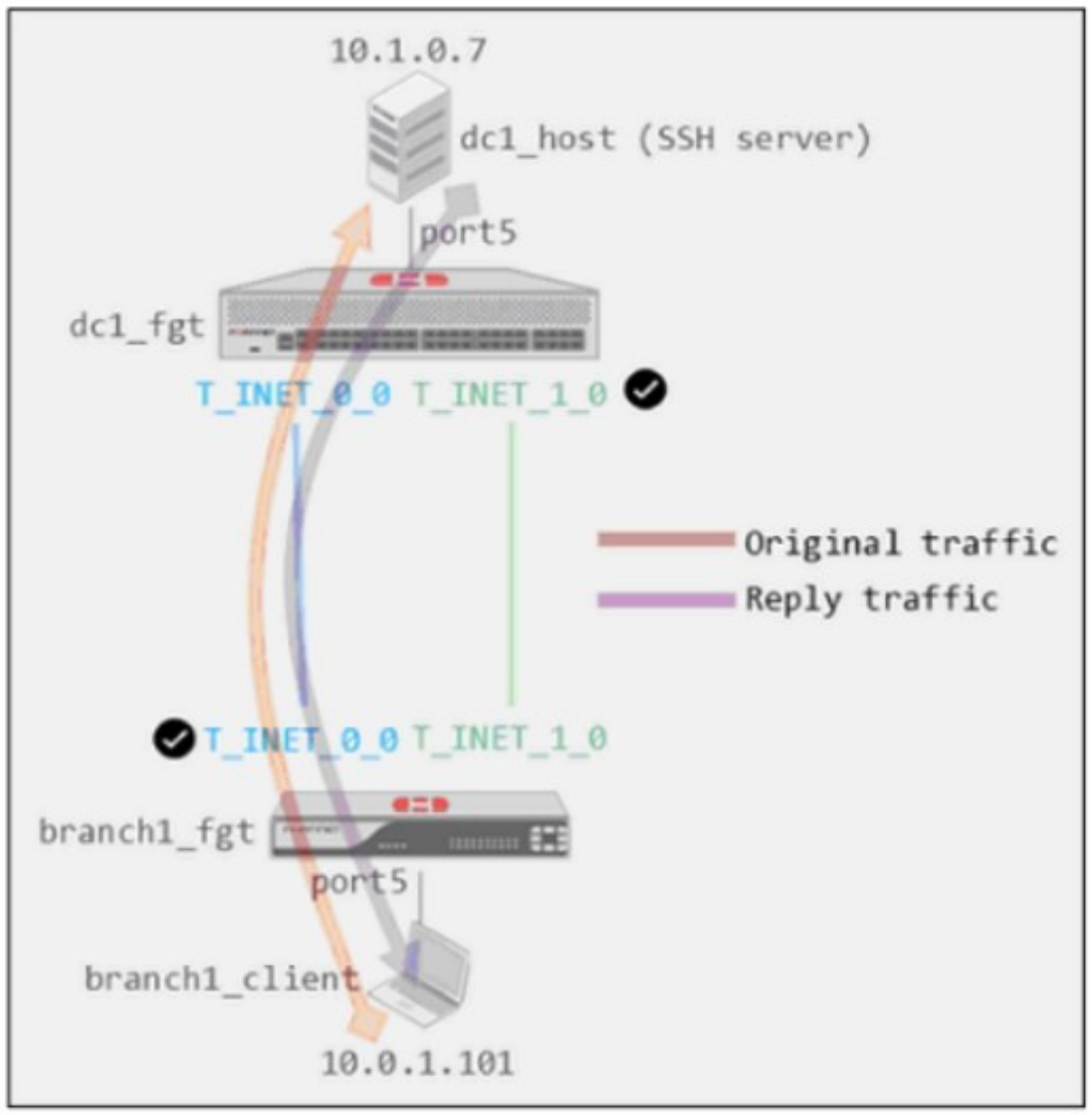


Exhibit B -

```
dc1_fgt # show system global
config system global
    set admin-https-redirect disable
    set admintimeout 480
    set alias "FortiGate-VM64"
    set hostname "dc1_fgt"
    set timezone 04
end

dc1_fgt # show system settings
config system settings
    set tcp-session-without-syn enable
    set allow-subnet-overlap enable
    set gui-allow-unnamed-policy enable
    set gui-multiple-interface-policy enable
end
```

Exhibit A shows a site-to-site topology between two FortiGate devices: branch1_fgt and dc1_fgt. Exhibit B shows the system global and system settings configuration on dc1_fgt.
When branch1_client establishes a connection to dc1_host, the administrator observes that, on dc1_fgt, the reply traffic is routed over T_INET_0_0, even though T_INET_1_0 is the preferred member in the matching SD-WAN rule.
Based on the information shown in the exhibits, what configuration change must be made on dc1_fgt so dc1_fgt routes the reply traffic over T_INET_1_0?

A. Enable auxiliary-session under config system settings.
B. Disable tp-session-without-syn under config system settings.
C. Enable snat-route-change under config system global.
D. Disable allow-subnet-overlap under config system settings.

Answer: A

NEW QUESTION 67
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 70
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 75
Refer to the exhibits. Exhibit A -

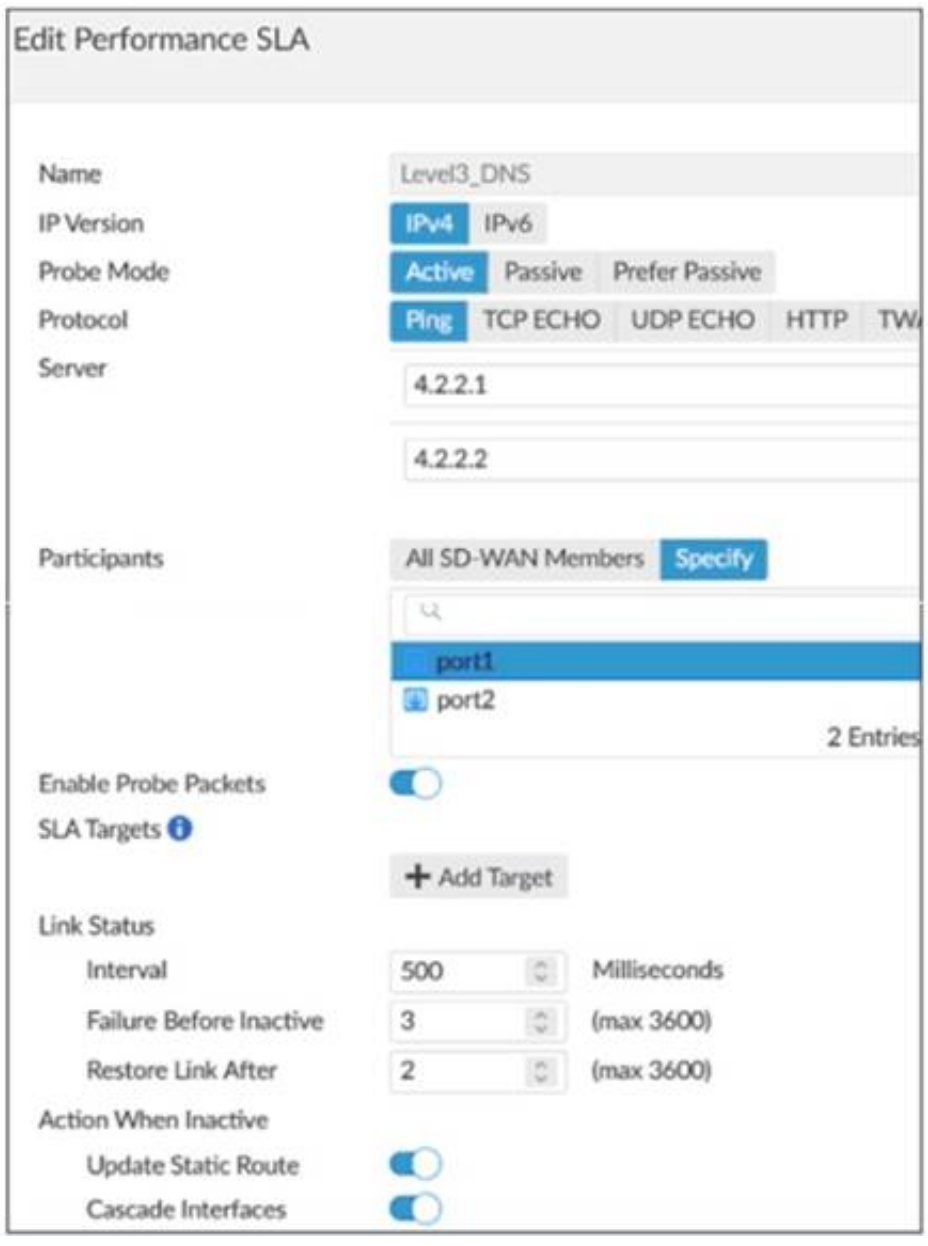


Exhibit B -

```
branch1_fgt # diagnose sys sdwan member | grep port
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

branch1_fgt # get router info routing-table all | grep port
S*      0.0.0.0/0 [1/0] via 192.2.0.2, port1
                  [1/0] via 192.2.0.10, port2
S       8.8.8.8/32 [10/0] via 192.2.0.11, port2
C       10.0.1.0/24 is directly connected, port5
S       172.16.0.0/16 [10/0] via 172.16.0.2, port4
C       172.16.0.0/29 is directly connected, port4
C       192.2.0.0/29 is directly connected, port1
C       192.2.0.8/29 is directly connected, port2
C       192.168.0.0/24 is directly connected, port10

branch1_fgt # diagnose sys sdwan health-check status Level3_DNS
Health Check(Level3_DNS):
Seq(1 port1): state(alive), packet-loss(0.000%) latency(1.919), jitter(0.137), bandwidth-
up(10238), bandwidth-dw(10238), bandwidth-bi(20476) sla_map=0x0
Seq(2 port2): state(alive), packet-loss(0.000%) latency(1.509), jitter(0.101), bandwidth-
up(10238), bandwidth-dw(10238), bandwidth-bi(20476) sla_map=0x0
```

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

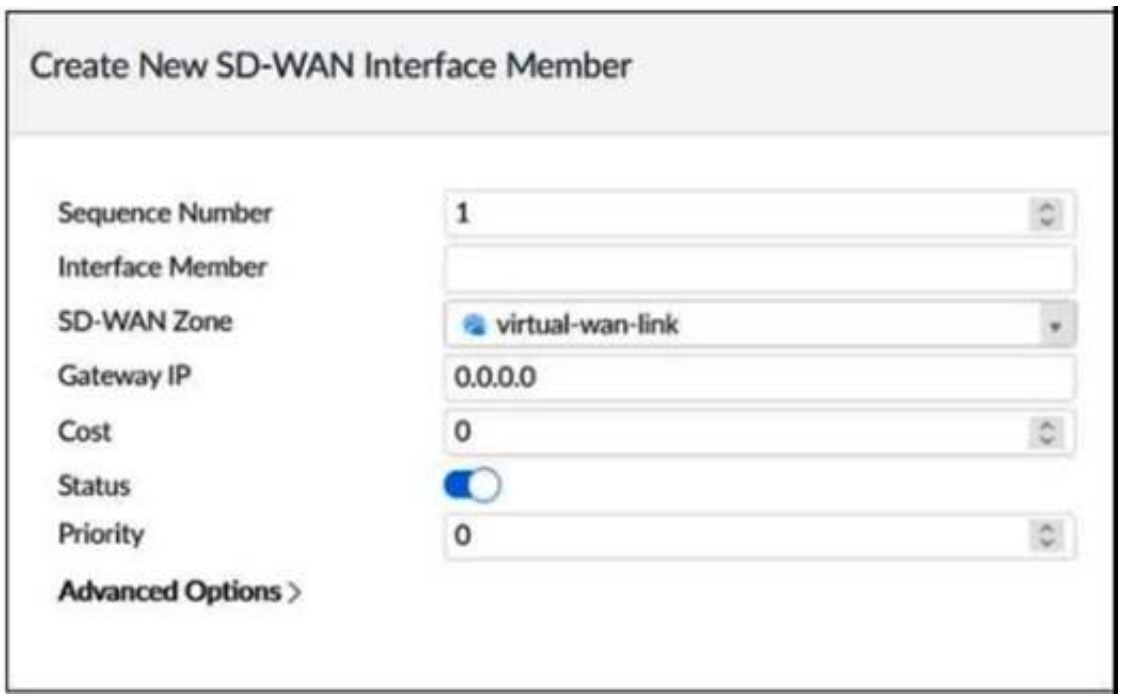
Explanation:
This is due to Update static route is enable which removes the static route entry referencing the interface if the interface is dead

NEW QUESTION 79
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 80
Refer to the exhibit.



Which two SD-WAN template member settings support the use of FortiManager meta fields? (Choose two.)

A. Cost
B. Interface member
C. Priority
D. Gateway IP

Answer: BD

NEW QUESTION 81
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 84
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 thedestination.
E. By default, SD-WAN rules are skipped if the best route to the destination is not an SD- WAN member.

Answer: BDE

Explanation:
Study Guide 7.2, pages 125, 129, 151

NEW QUESTION 87
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 88
.....

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