Fortinet

Exam Questions NSE7_SDW-7.2

Fortinet NSE 7 - SD-WAN 7.2

NEW QUESTION 1
Refer to the exhibit.

```
# get router info routing-table all
...
B       10.0.2.0/24 [200/0] via 10.201.1.2 [3] (recursive via VPN0 tunnel 100.64.1.1), 00:00:54
                    [200/0] via 10.202.1.2 [3] (recursive via VPN1 tunnel 100.64.1.9), 00:00:54
                    [200/0] via 10.203.1.1 [3] (recursive via VPN2 tunnel 172.16.1.5), 00:00:54
...
```

The device exchanges routes using IBGP.
Which two statements are correct about the IBGP configuration and routing information on the device? (Choose two.)

A. Each BGP route is three hops away from the destination.
B. ibgp-multipath is disabled.
C. additional-path is enabled.
D. You can run the get router info routing-table database command to display the additional paths.

Answer: CD

NEW QUESTION 2
What is a benefit of using application steering in SD-WAN?

A. The traffic always skips the regular policy routes.
B. You steer traffic based on the detected application.
C. You do not need to enable SSL inspection.
D. You do not need to configure firewall policies that accept the SD-WAN traffic.

Answer: B

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
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 5
Exhibit.

```
# diagnose sys sdwan health-check status
Health Check(Level3_DNS):
Seq(1 port1): state(alive), packet-loss(0.000%) latency(22.129), jitter(0.201), mos(4.393),
bandwidth-up(10235), bandwidth-dw(10235), bandwidth-bi(20470) sla_map=0x0
Seq(2 port2): state(alive), packet-loss(7.000%) latency(42.394), jitter(0.912), mos(4.378),
bandwidth-up(10236), bandwidth-dw(10237), bandwidth-bi(20473) sla_map=0x0
Health Check(VPN_PING):
Seq(5 T_MPLS): state(alive), packet-loss(0.000%) latency(131.336), jitter(0.199), mos(4.330),
bandwidth-up(9999999), bandwidth-dw(9999999), bandwidth-bi(19999998) sla_map=0x2
Seq(4 T_INET_1): state(alive), packet-loss(11.000%) latency(1.465), jitter(0.226), mos(4.398),
bandwidth-up(10239), bandwidth-dw(10239), bandwidth-bi(20478) sla_map=0x1
Seq(3 T_INET_0): state(alive), packet-loss(0.000%) latency(1.440), jitter(0.245), mos(4.403),
bandwidth-up(10239), bandwidth-dw(10239), bandwidth-bi(20478) sla_map=0x3
```

The exhibit shows the output of the command diagnose sys sdwan health-check status
collected on a FortiGate device. Which two statements are correct about the health check status on this FortiGate device? (Choose two.)

A. The health-check VPN_PING orders the members according to the lowest jitter.
B. The interface T_INET_1 missed one SLA target.
C. There is no SLA criteria configured for the health-check Level3_DNS.
D. The interface T_INET_0 missed three SLA targets.

Answer: AC

Explanation:
According to the FortiGate / FortiOS 6.4.2 Administration Guide, the health check status command displays the status of the health check probes for each SD-WAN member interface. The output includes the following information:
? state: the current state of the interface, either alive or dead
? packet-loss: the percentage of packets lost during the health check
? latency: the average round-trip time in milliseconds
? jitter: the variation in latency

? mos: the mean opinion score, a measure of voice quality
? bandwidth: the available bandwidth in kilobits per second for each direction (up, down, bi)
? sla map: a bitmap that indicates which SLA criteria are met or failed Based on the exhibit, the following statements are correct:
? The health-check VPN_PING orders the members according to the lowest jitter. This means that the interface with the lowest jitter value is listed first, followed by the next lowest, and so on1. In the exhibit, the order is T_MPLS, T_INET_1, and T_INET_0.
? There is no SLA criteria configured for the health-check Level3_DNS. This means that the health check does not use any SLA parameters to determine the state of the interface2. In the exhibit, the sla map value is 0x0 for both port1 and port2, indicating that no SLA criteria are applied.

NEW QUESTION 6
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 7
What does enabling the exchange-interface-ip setting enable FortiGate devices to exchange?

A. The gateway address of their IPsec interfaces
B. The tunnel ID of their IPsec interfaces
C. The IP address of their IPsec interfaces
D. The name of their IPsec interfaces

Answer: C

NEW QUESTION 8
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 9
Refer to the exhibit.

```
config system sdwan
    set status enable
    set load-balance source-dest-ip-based
    config zone
        edit "virtual-wan-link"
        next
        edit "SASE"
        next
        edit "underlay"
        next
    end
    config members
        edit 1
            set interface "port1"
            set zone "underlay"
            set gateway 192.2.0.2
        next
        edit 2
            set interface "port2"
            set zone "underlay"
            set gateway 192.2.0.10
        next
    end
...
end
```

Which algorithm does SD-WAN use to distribute traffic that does not match any of the SD- WAN rules?

A. All traffic from a source IP to a destination IP is sent to the same interface.
B. All traffic from a source IP is sent to the same interface.
C. All traffic from a source IP is sent to the most used interface.
D. All traffic from a source IP to a destination IP is sent to the least used interface.

Answer: A

Explanation:
Study Guide 7.2, page 176.

NEW QUESTION 10
Refer to the Exhibits:

Exhibit A

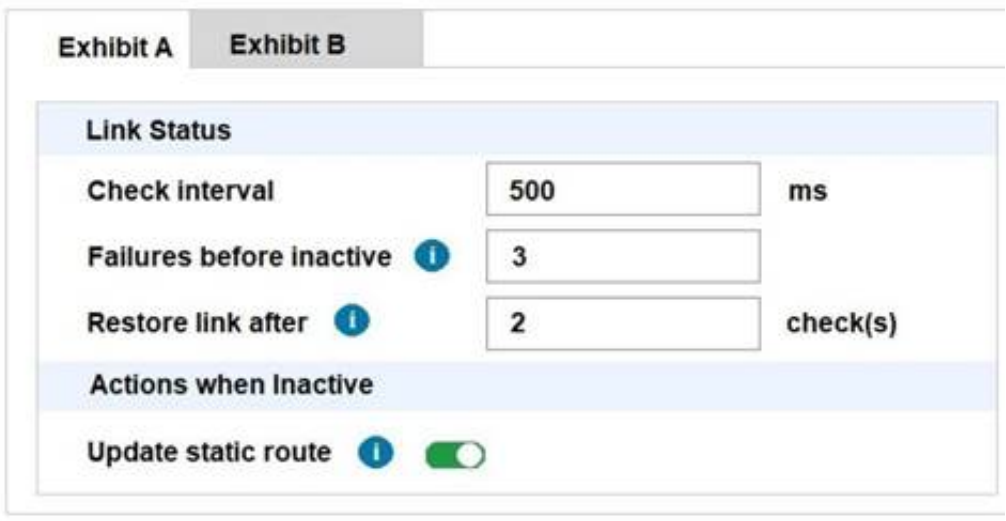


Exhibit B

```
NGFW-1 # diagnose sys sdwan health-check
Health Check (Ping):
Seq (1 port1): state (alive), packet-loss (0.000%) latency
(6.196), jitter (0.079) sla_map=0x0
Seq (2 port2): state (dead), packet-loss (6.000%) sla_map=0x0
```

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 10
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 15
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 20
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 21
Exhibit A –

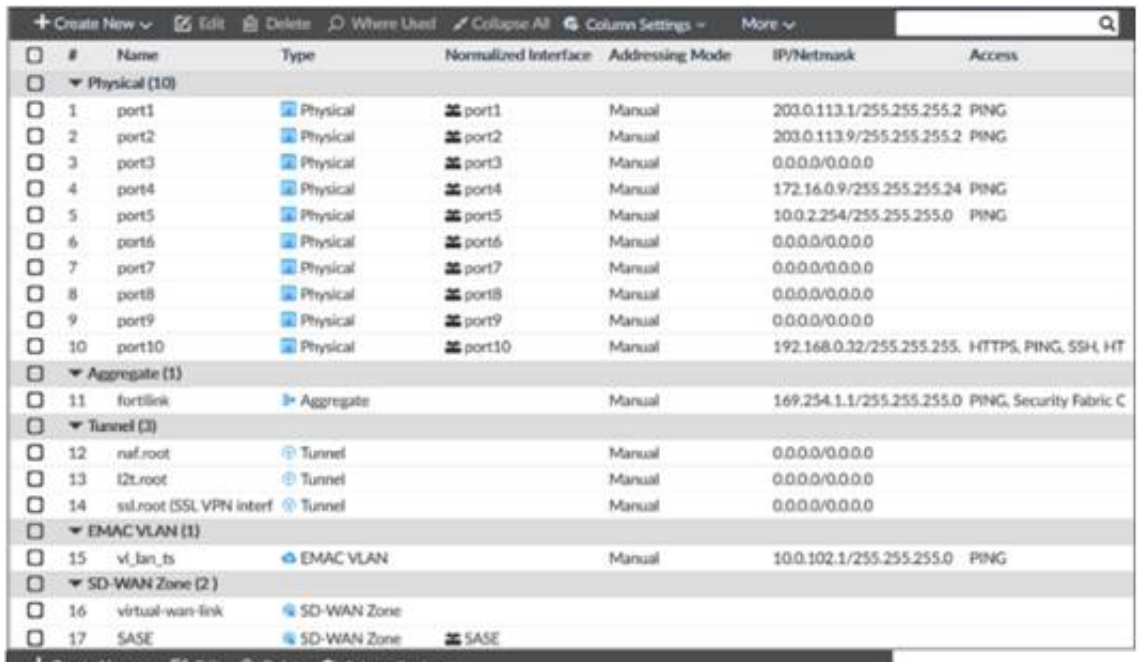


Exhibit B –

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

NEW QUESTION 24
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 28
What three characteristics apply to provisioning templates available on FortiManager? (Choose three.)

A. You can apply a system template and a CLI template to the same FortiGate device.
B. A CLI template can be of type CLI script or Perl script.
C. A template group can include a system template and an SD-WAN template.
D. A template group can contain CLI templates of both types.
E. Templates are applied in order, from top to bottom.

Answer: BDE

Explanation:
According to the FortiManager Administration Guide, provisioning templates are used to configure FortiGate devices in a consistent and efficient way. There are different types of templates, such as system, IPsec, SD-WAN, certificate, and CLI templates. Some characteristics of provisioning templates are:
? You can apply a system template and a CLI template to the same FortiGate device, as long as they do not have conflicting settings1.
? A CLI template can be of type CLI script or Perl script. A CLI script template contains FortiOS CLI commands, while a Perl script template contains Perl code that can generate FortiOS CLI commands2.
? A template group can include a system template and an SD-WAN template, as well as other types of templates. A template group is a collection of templates that can be applied to multiple devices at once3.
? A template group can contain CLI templates of both types, as long as they do not have conflicting settings2.
? Templates are applied in order, from top to bottom. The order of the templates in a template group determines the order in which they are applied to the devices3.

NEW QUESTION 32
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:
Performance SLA (Service Level Agreement) protocols are used in SD-WAN to monitor the quality and performance of various network services. The two protocols that specifically allow for verifying a specific value in the server response are:
? HTTP (Hypertext Transfer Protocol): HTTP is the foundation of data communication on the World Wide Web. It allows for fetching resources, such as HTML documents. You can configure an HTTP performance SLA to send specific requests (e.g., GET or POST) and then check if the response body contains a particular string or value. This is useful for validating web server functionality and content delivery.
? DNS (Domain Name System): DNS is responsible for translating domain names into IP addresses. A DNS performance SLA can be set up to query a specific domain and verify that the returned IP address or other DNS record values match what is expected. This helps ensure proper name resolution and accessibility of resources.

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
What are two common use cases for remote internet access (RIA)? (Choose two.)

A. Provide direct internet access on spokes
B. Provide internet access through the hub
C. Centralize security inspection on the hub
D. Provide thorough inspection on spokes

Answer: BC

Explanation:
* B. Provide internet access through the hub: This involves routing branch or remote office internet traffic through a central hub, ensuring consistent security policies and possibly better management of network resources.
* C. Centralize security inspection on the hub: With this approach, all internet-bound traffic from various spokes is inspected at the hub, leveraging centralized security mechanisms for thorough inspection and policy enforcement.

NEW QUESTION 43
Exhibit.

```
7: […]logid="0101037141" type="event" subtype="vpn" level="notice" vd="root" logdesc="IPsec tunnel
statistics" msg="IPsec tunnel statistics" action="tunnel-stats" remip=100.64.1.9 locip=192.2.0.9
remport=500 locport=500 outintf="port2" cookies="773c72b48060051d/529ac435532959b6" user="N/A"
group="N/A" useralt="N/A" xauthuser="N/A" xauthgroup="N/A" assignip=10.202.1.1
vpntunnel="T_INET_1" tunnelip=N/A tunnelid=2595348112 tunneltype="ipsec" duration=3581
sentbyte=386431 rcvdbyte=387326 nextstat=600 advpnsc=0

8: […]logid="0101037141" type="event" subtype="vpn" level="notice" vd="root" logdesc="IPsec tunnel
statistics" msg="IPsec tunnel statistics" action="tunnel-stats" remip=172.16.0.9 locip=172.16.0.1
remport=500 locport=500 outintf="port4" cookies="0624890597f0096d/ed1bd5247375c46f" user="N/A"
group="N/A" useralt="N/A" xauthuser="N/A" xauthgroup="N/A" assignip=N/A vpntunnel="T_MPLS_0"
tunnelip=0.0.0.0 tunnelid=2595348102 tunneltype="ipsec" duration=223 sentbyte=115040
rcvdbyte=345160 nextstat=600 advpnsc=1

9: […]logid="0101037141" type="event" subtype="vpn" level="notice" vd="root" logdesc="IPsec tunnel
statistics" msg="IPsec tunnel statistics" action="tunnel-stats" remip=100.64.1.1 locip=192.2.0.1
remport=500 locport=500 outintf="port1" cookies="747b432459497188/6616a969a6937853" user="N/A"
group="N/A" useralt="N/A" xauthuser="N/A" xauthgroup="N/A" assignip=10.201.1.1
vpntunnel="T_INET_0" tunnelip=N/A tunnelid=2595348115 tunneltype="ipsec" duration=3580
sentbyte=388020 rcvdbyte=387994 nextstat=600 advpnsc=0
```

The exhibit shows VPN event logs on FortiGate. In the output shown in the exhibit, which statement is true?

A. There are no IPsec tunnel statistics log messages for ADVPN cuts.
B. There is one shortcut tunnel built from master tunnel T_MPLS_0.
C. The VPN tunnel T_MPLS_0 is a shortcut tunnel.
D. The master tunnel T_INET_0 cannot accept the ADVPN shortcut.

Answer: B

Explanation:
VPN event logs record the status of VPN tunnels, such as the establishment, termination, or failure of a tunnel. The output includes the following information:

? logid: the log ID number
? type: the log type, either traffic or event
? subtype: the log subtype, either vpn or ipsec
? level: the log level, either error, warning, or notice
? vd: the virtual domain name
? logdesc: the log description
? msg: the log message
? action: the log action, such as tunnel-up, tunnel-down, or tunnel-stats
? remip: the remote IP address
? locip: the local IP address
? remport: the remote port number
? locport: the local port number
? outintf: the outgoing interface name
? cookies: the IKE SA cookies
? user: the user name
? group: the user group name
? useralt: the alternative user name
? xauthuser: the XAuth user name
? authgroup: the XAuth user group name
? assignip: the assigned IP address
? vpntunnel: the VPN tunnel name
? tunnellip: the tunnel loopback IP address
? tunnelid: the tunnel ID number
? tunneltype: the tunnel type, either ipsec or ssl
? duration: the tunnel duration in seconds
? sentbyte: the number of bytes sent
? rcvdbyte: the number of bytes received
? nextstat: the next statistics interval in seconds
? advpnsc: the ADVPN shortcut flag, either 0 or 1 Based on the exhibit, the following statement is true:
? There is one shortcut tunnel built from master tunnel T_MPLS_0. This means that the VPN tunnel T_MPLS_0 is a master tunnel that can send ADVPN shortcut offers to other spokes, and the VPN tunnel T_MPLS_0_0 is a shortcut tunnel that is built from the master tunnel T_MPLS_01. In the exhibit, the log action for T_MPLS_0 is tunnel-up, and the log action for T_MPLS_0_0 is shortcut-up. The advpnsc flag for T_MPLS_0 is 0, indicating that it is not a shortcut tunnel, while the advpnsc flag for T_MPLS_0_0 is 1, indicating that it is a shortcut tunnel.

NEW QUESTION 48
Refer to the exhibits. Exhibit A -

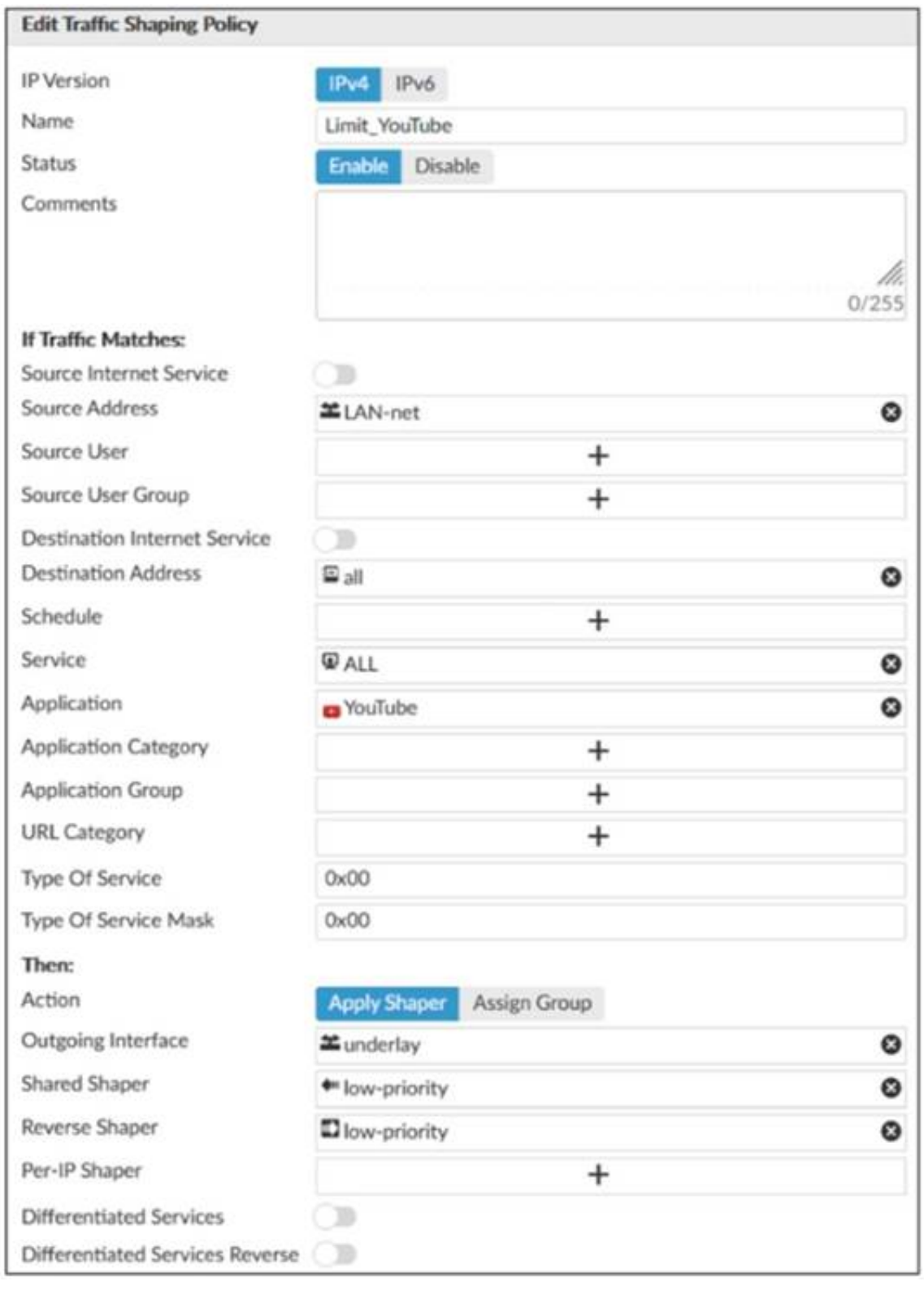


Exhibit B -

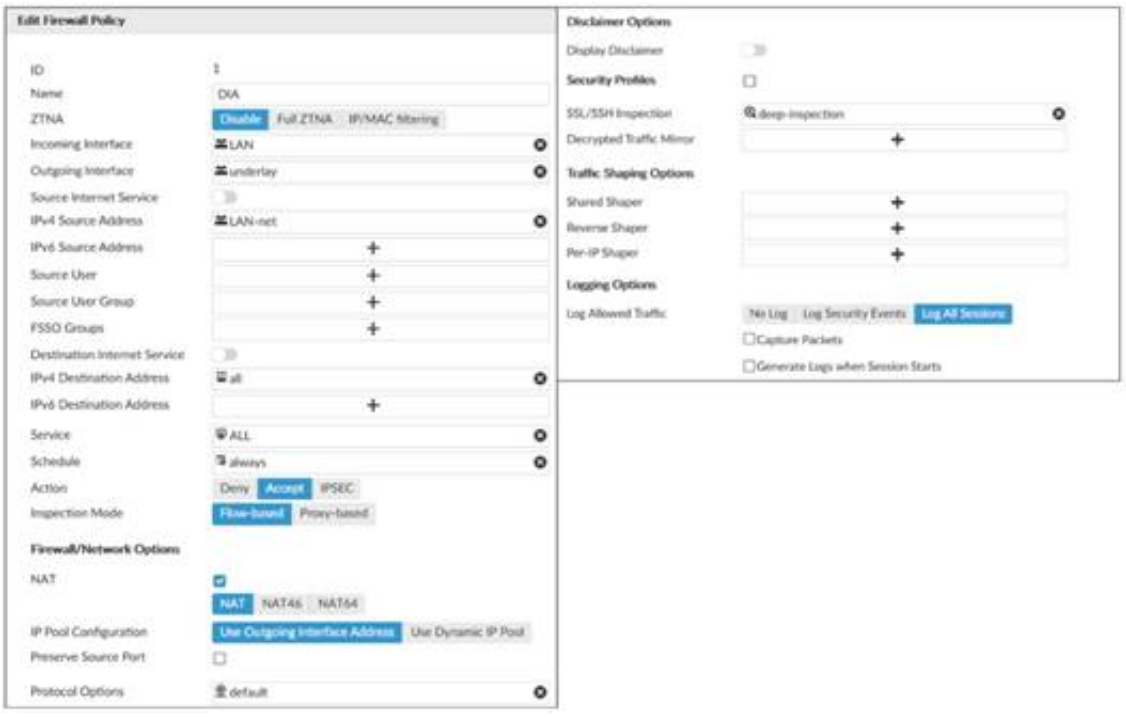


Exhibit A shows the traffic shaping policy and exhibit B shows the firewall policy.
The administrator wants FortiGate to limit the bandwidth used by YouTube. When testing, the administrator determines that FortiGate does not apply traffic shaping on YouTube traffic.
Based on the policies shown in the 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 53
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 58
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 61
Refer to the exhibits.
Exhibit A

```
config system sdwan
    config health-check
        edit "Passive"
            set detect-mode passive
            set members 3 4
        next
    end
end

config system sdwan
    config service
        edit 1
            set name "Facebook-YouTube"
            set src "all"
            set internet-service enable
            set internet-service-app-ctrl 15832 31077
            set health-check "Passive"
            set priority-member 3 4
            set passive-measurement enable
        next
    end
end

branch1_fgt # get application name status | grep "id: 15832" -B1
app-name: "Facebook"
id: 15832

branch1_fgt # get application name status | grep "id: 31077" -B1
app-name: "YouTube"
id: 31077
```

Exhibit B

```
config firewall policy
    edit 1
        set name "DIA"
        set uuid b973e4ec-5f90-51ec-cadb-017c830d9418
        set srcintf "port5"
        set dstintf "underlay"
        set action accept
        set srcaddr "LAN-net"
        set dstaddr "all"
        set schedule "always"
        set service "ALL"
        set passive-wan-health-measurement enable
        set utm-status enable
        set ssl-ssh-profile "certificate-inspection"
        set application-list "default"
        set logtraffic all
        set auto-asic-offload disable
        set nat enable
    next
end

branch1_fgt # diagnose sys sdwan zone | grep underlay -A1
Zone underlay index=3
        members(2): 3(port1) 4(port2)
```

Exhibit A shows the SD-WAN performance SLA configuration, the SD-WAN rule configuration, and the application IDs of Facebook and YouTube. Exhibit B shows the firewall policy configuration and the underlay zone status.
Based on the exhibits, which two statements are correct about the health and performance of port1 and port2? (Choose two.)

A. The performance is an average of the metrics measured for Facebook and YouTube traffic passing through the member.
B. FortiGate is unable to measure jitter and packet loss on Facebook and YouTube traffic.
C. FortiGate identifies the member as dead when there is no Facebook and YouTube traffic passing through the member.
D. Non-TCP Facebook and YouTube traffic are not used for performance measurement.

Answer: AD

Explanation:
Study Guide 7.2, pages 103 - 104. Another comment said "because without using application Control on the firewall policy, SDWAN can't work" but there is a app control "default" defined on config.

NEW QUESTION 66
Which two protocols in the IPsec suite are most used for authentication and encryption? (Choose two.)

A. Encapsulating Security Payload (ESP)
B. Secure Shell (SSH)
C. Internet Key Exchange (IKE)
D. Security Association (SA)

Answer: AC

NEW QUESTION 71
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: AC

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.

NEW QUESTION 75
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

NEW QUESTION 78
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 83
The SD-WAN overlay template helps to prepare SD-WAN deployments. To complete the tasks performed by the SD-WAN overlay template, the administrator must perform some post-run tasks. What are three mandatory post-run tasks that must be performed? (Choose three.)

A. Create policy packages for branch devices.
B. Assign an sdwan_id metadata variable to each device (branch and hub}.
C. Configure routing through overlay tunnels created by the SD-WAN overlay template.
D. Assign a branch_id metadata variable to each branch device.
E. Configure SD-WAN rules.

Answer: ABC

NEW QUESTION 86
Refer to the exhibits. Exhibit A -

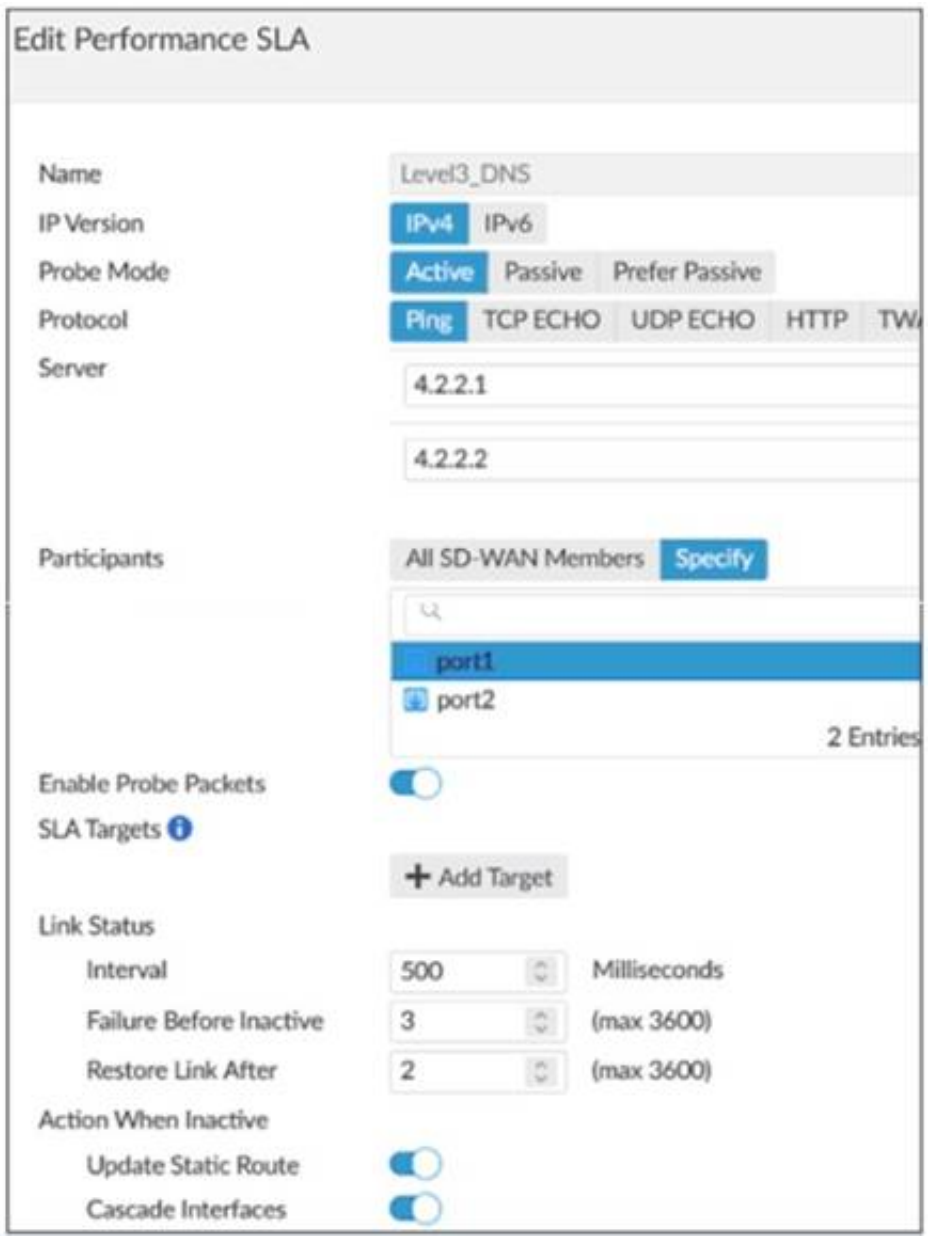


Exhibit B -

```
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 88
Refer to the exhibit.

```
config router bgp
    set as 65000
    set router-id 10.1.0.1
    set ibgp-multipath enable
    set additional-path enable
    set additional-path-select 3
    config neighbor-group
        edit "Branches_INET_0"
            set interface "T_INET_0_0"
            set remote-as 65000
            set update-source "T_INET_0_0"
        next
        edit "Branches_INET_1"
            set interface "T_INET_1_0"
            set remote-as 65000
            set update-source "T_INET_1_0"
        next
        edit "Branches_MPLS"
            set interface "T_MPLS_0"
            set remote-as 65000
            set update-source "T_MPLS_0"
        next
    end
    config neighbor-range
        edit 1
            set prefix 10.201.1.0 255.255.255.0
            set neighbor-group "Branches_INET_0"
        next
        edit 2
            set prefix 10.202.1.0 255.255.255.0
            set neighbor-group "Branches_INET_1"
        next
        edit 3
            set prefix 10.203.1.0 255.255.255.0
            set neighbor-group "Branches_MPLS"
        next
    end
...
end
```

The exhibit shows the BGP configuration on the hub in a hub-and-spoke topology. The administrator wants BGP to advertise prefixes from spokes to other spokes over the IPsec overlays, including additional paths. However, when looking at the spoke routing table, the administrator does not see the prefixes from other spokes and the additional paths.
Based on the exhibit, which three settings must the administrator configure inside each BGP neighbor group so spokes can learn other spokes prefixes and their additional paths? (Choose three.)

A. Set additional-path to send
B. Enable route-reflector-client
C. Set advertisement-interval to the number of additional paths to advertise
D. Set adv-additional-path to the number of additional paths to advertise
E. Enable soft-reconfiguration

Answer: ABD

NEW QUESTION 93
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 98

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

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

Answer: BC

Explanation:
According to the SD-WAN 7.2 Study Guide, IPsec recommended templates are designed to simplify the configuration of IPsec tunnels in a hub-and-spoke topology. They have the following advantages:
? FortiManager automatically installs IPsec tunnels to every spoke when they are added to the FortiManager ADOM. This reduces the manual effort and ensures that all spokes have the same configuration.
? IPsec recommended template guides the administrator to use Fortinet recommended settings, such as encryption algorithms, key lifetimes, and dead peer detection. This ensures optimal performance and security of the IPsec tunnels.

NEW QUESTION 103
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 108
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 112
What are two benefits of choosing packet duplication over FEC for data loss correction on noisy links? (Choose two.)

A. Packet duplication can leverage multiple IPsec overlays for sending additional data.
B. Packet duplication does not require a route to the destination.
C. Packet duplication supports hardware offloading.
D. Packet duplication uses smaller parity packets which results in less bandwidth consumption.

Answer: AC

NEW QUESTION 115
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 116
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.

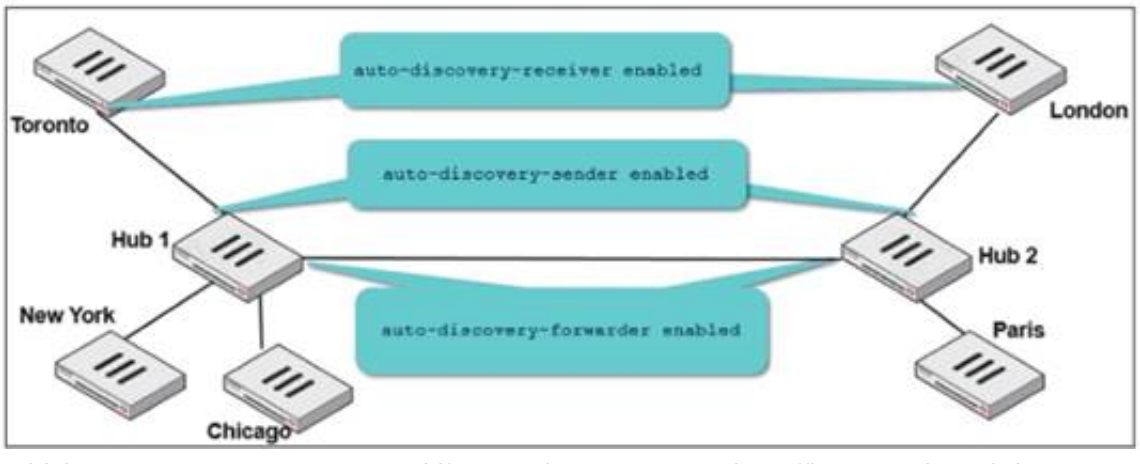
Answer: C

NEW QUESTION 117
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 122
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 VPN.
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: BD

NEW QUESTION 125
Refer to the exhibit.

```
# diagnose firewall shaper per-ip-shaper list
name FTP_5M
maximum-bandwidth 625 KB/sec
maximum-concurrent-session 5
tos ff/ff
packets dropped 65
bytes dropped 81040
        addr=10.1.0.1 status: bps=0 ses=1
        addr=10.1.0.100 status: bps=0 ses=1
        addr=10.1.10.1 status: bps=1656 ses=3
```

Which are two expected behaviors of the traffic that matches the traffic shaper? (Choose two.)

A. The number of simultaneous connections among all source IP addresses cannot exceed five connections.
B. The traffic shaper limits the combined bandwidth of all connections to a maximum of 5 MB/sec.
C. The number of simultaneous connections allowed for each source IP address cannot exceed five connections.
D. The traffic shaper limits the bandwidth of each source IP address to a maximum of 625 KB/sec.

Answer: CD

NEW QUESTION 126
.....

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