

Vendor: Fortinet

Exam Code: NSE7_SDW-7.2

Exam Name: Fortinet NSE 7 - SD-WAN 7.2

Version: 23.111



QUESTION 1

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 Explanation:

CLI templates are useful for pushing advanced CLI settings that reference meta fields.

QUESTION 2

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 3

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
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 Explanation:

link-cost-treshold is set to 10 (percent) so the other link must have a latency of less than 90% of the preferred link.

QUESTION 4

Refer to the exhibits.

Exhibit A

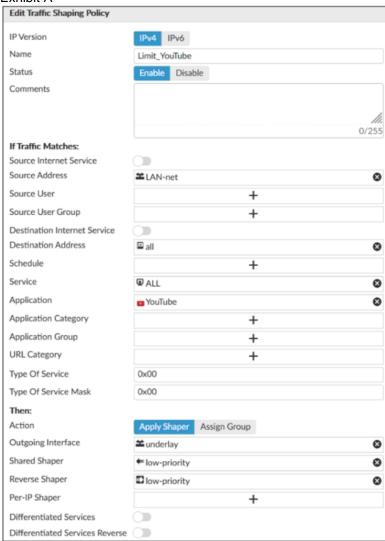


Exhibit B



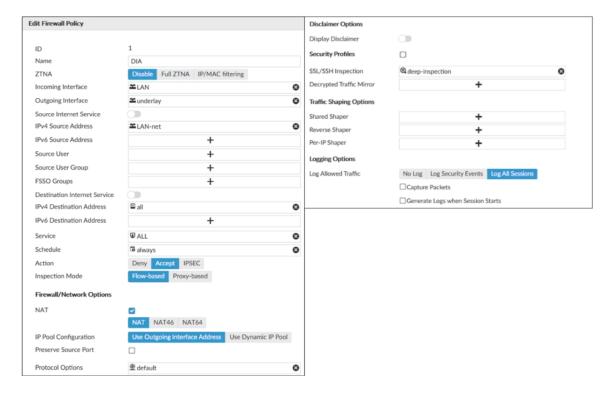


Exhibit A shows the traffic shaping policy and exhibit B shows the firewall policy. The administrator wants FortiGate to limit the bandwidth used by YouTube. When testing, the administrator determines that FortiGate does not apply traffic shaping on YouTube traffic. Based on the policies shown in the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

QUESTION 5

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



```
config vpn ipsec phasel-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+WuszpmuIv8rRzrVhuller (2011) and (20
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 Explanation:

For SPOKE you need to configure "net-device Enable" and a "uto-discovery-sender Enable".

QUESTION 6

Refer to the exhibits.

Exhibit A



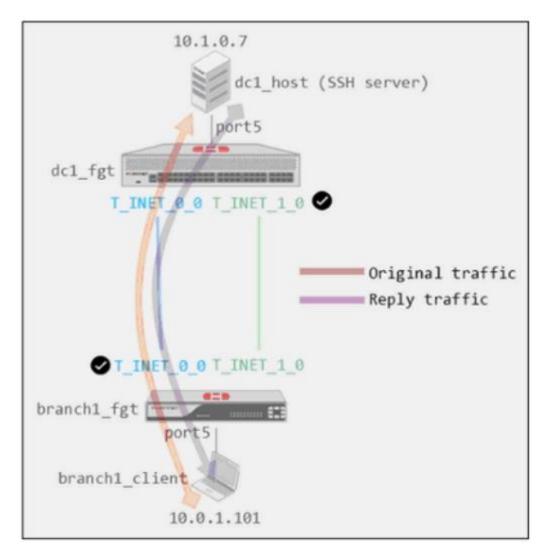


Exhibit B



```
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 Explanation:

Controlling return path with auxiliary session When multiple incoming or outgoing interfaces are used in ECMP or for load balancing, changes to routing, incoming, or return traffic interfaces impacts how an existing sessions handles the traffic. Auxiliary sessions can be used to handle these changes to traffic patterns.

QUESTION 7

Refer to the exhibits.

Exhibit A



dit Performance SLA						
Name	Level3_DNS					
IP Version	IPv4	IPv6				
Probe Mode	Activ	Passiv	e	Prefer Passive		
Protocol	Ping	TCP ECH	10	UDP ECHO	HTTP	TW
Server	4.2.2.1					
	4.2.2.2					
Participants	All SD-WAN Members Specify					
	ч					
	port1					
	port2 2 Entries					
Enable Probe Packets						
SLA Targets 1						
	+ Ac	d Target				
Link Status						
Interval	500	0	Μ	lilliseconds		
Failure Before Inactive	3	0	(n	nax 3600)		
Restore Link After	2	0	(n	nax 3600)		
Action When Inactive						
Update Static Route						
Cascade Interfaces						

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
        0.0.0.0/0 [1/0] via 192.2.0.2, port1
                   [1/0] via 192.2.0.10, port2
        8.8.8.8/32 [10/0] via 192.2.0.11, port2
        10.0.1.0/24 is directly connected, port5
        172.16.0.0/16 [10/0] via 172.16.0.2, port4
        172.16.0.0/29 is directly connected, port4
        192.2.0.0/29 is directly connected, port1
        192.2.0.8/29 is directly connected, port2
        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.

QUESTION 8

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

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

Answer: A Explanation:

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

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:

By default when no sd-wan rule is matched, uses a source-IP load balancing algorithm, BUT from the exhibit the has been changed to Source-Destination IP.

QUESTION 10

Which are three key routing principles in SD-WAN? (Choose three.)

- A. FortiGate performs route lookups for new sessions only.
- B. Regular policy routes have precedence over SD-WAN rules.
- C. SD-WAN rules have precedence over ISDB routes.



- D. By default, SD-WAN members are skipped if they do not have a valid route to the destination.
- E. By default, SD-WAN rules are skipped if the best route to the destination is not an SD-WAN member.

Answer: BDE

QUESTION 11

What are two reasons for using FortiManager to organize and manage the network for a group of FortiGate devices? (Choose two)

- A. It simplifies the deployment and administration of SD-WAN on managed FortiGate devices.
- B. It improves SD-WAN performance on the managed FortiGate devices.
- C. It sends probe signals as health checks to the beacon servers on behalf of FortiGate.
- D. It acts as a policy compliance entity to review all managed FortiGate devices.
- E. It reduces WAN usage on FortiGate devices by acting as a local FortiGuard server.

Answer: AE

QUESTION 12

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

QUESTION 13

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 dhqrp 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

QUESTION 14

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



```
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
```

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

Answer: BC

QUESTION 15

Which two tasks about using central VPN management are true? (Choose two.)

- A. You can configure full mesh, star, and dial-up VPN topologies.
- B. FortiManager installs VPN settings on both managed and external gateways.
- C. You configure VPN communities to define common IPsec settings shared by all VPN gateways.
- D. You must enable VPN zones for SD-WAN deployments.

Answer: AC

QUESTION 16

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

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



Answer: B

QUESTION 17

Which feature enables SD-WAN to combine IPsec VPN dynamic shortcut tunnels between spokes and a static tunnel to the hub?

- A. ADVPN
- B. GRE
- C. SSLVPN
- D. OCVPN

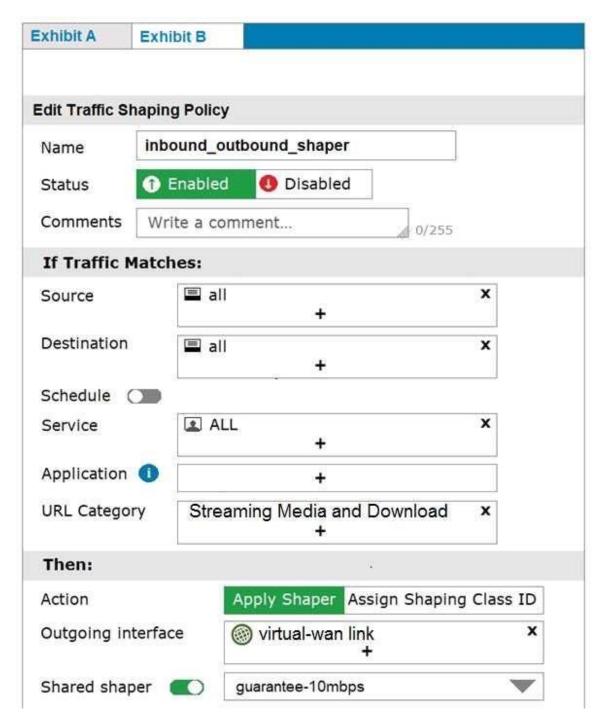
Answer: A

QUESTION 18

Refer to exhibits. Exhibit A shows the firewall policy and exhibit B shows the traffic shaping policy. The traffic shaping policy is being applied to all outbound traffic; however, inbound traffic is not being evaluated by the shaping policy.

Based on the exhibits, what configuration change must be made in which policy so that traffic shaping can be applied to inbound traffic?





- A. Create a new firewall policy, and the select the SD-WAN zone as Incoming Interface.
- B. In the traffic shaping policy, select Assign Shaping Class ID as Action.
- C. In the firewall policy, select Proxy-based as Inspection Mode.
- D. In the traffic shaping policy, enable Reverse shaper, and then select the traffic shaper to use.

Answer: D

QUESTION 19



Based on the exhibit, which status description is correct?

```
NGFW-1 # diagnose sys virtual-wan-link health-check
Health Check(DC_PBX_SLA):
Seq(1 port1): state(dead), packet-loss(75.000%) sla_map=0x0
Seq(2 port2): state(alive), packet-loss(0.000%) latency(50.477), jitter(3.699)
sla_map=0x1

NGFW -1 # diagnose sys sdwan service

Service(1): Address Mode(IPV4) flags=0x0
Gen(3), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(priority), link-cost-factor(latency), link-cost-threshold(10), heath-check(DC_PBX_SLA)

Members:

1: Seq_num(2 port2), alive, latency: 50.233, selected
2: Seq_num(1 port1), dead
Internet Service: Microsoft-Skype_Teams(327781,0,0,0)
Src address:
0.0.0.0-255.255.255.255
```

- A. Port1 is dead because it does not meet the SLA target.
- B. Port2 is alive because its packet loss is lower than 10%.
- C. The SD-WAN members are monitored by different performance SLAs.
- D. Traffic matching the SD-WAN rule is steered through port2.

Answer: D

QUESTION 20

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

QUESTION 21

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

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

Answer: BD

QUESTION 22

Which statement is correct about SD-WAN and ADVPN?



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

Answer: B

QUESTION 23

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

```
config vpn ipsec phase1-interface
    edit Hub
       set add-route enable
       set net-device disable
       set tunnel-search nexthop
    next
end
diagnose vpn tunnel list name Hub
list ipsec tunnel by names in vd 0
name=Hub ver=1 serial=1 100.64.1.1:0->0.0.0.0:0 dst mtu=0
bound if=3 lgwy=static/1 tun=intf/0 mode=dialup/2 encap=none/512 options[0200]=search-
nexthop frag-rfc accept traffic=1
proxyid num=0 child num=2 refcnt=20 ilast=176 olast=176 ad=/0
stat: rxp=22 txp=18 rxb=2992 txb=1752
dpd: mode=on-idle on=0 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
run_tally=2
ipv4 route tree:
100.64.3.1 1
100.64.5.1 0
172.16.1.2 1
172.16.1.3 0
```

- A. FortiGate creates separate virtual interfaces for each dial-up client.
- B. FortiGate creates a single IPsec virtual interface that is shared by all clients.
- C. FortiGate maps the remote gateway 100.64.3.1 to tunnel index interface 1.
- D. FortiGate does not install IPsec static routes for remote protected networks in the routing table.

Answer: BC Explanation:

If net-device is disabled, FortiGate creates a single IPSEC virtual interface that is shared by all IPSEC clients connecting to the same dialup VPN. In this case, the tunnel-search setting determines how FortiGate learns the network behind each remote client.

QUESTION 24

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

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



C. diagnose sys sdwan log

D. diagnose sys sdwan sla-log

Answer: A Explanation:

The diagnose sys sdwan sla-log command shows the member utilization statistics measured by performance SLAs for the last 10 minutes.

Option A, diagnose sys sdwan intf-sla-log, shows the interface utilization statistics measured by performance SLAs for the last 10 minutes.

Option B, diagnose sys sdwan health-check, shows the health check statistics for all interfaces.

Option C, diagnose sys sdwan log, shows all SD-WAN logs.

QUESTION 25

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 Explanation:

ESP is used for encryption, while IKE is used for authentication and key exchange. SSH is not a part of the IPsec suite, and SA is a term used to refer to a security association, which is a set of parameters that define how two peers will communicate securely.

QUESTION 26

Which two settings can you configure to speed up routing convergence in BGP? (Choose two.)

- A. update-source
- B. set-route-tag
- C. holdtime-timer
- D. link-down-failover

Answer: CD Explanation:

The holdtime-timer is the amount of time that a BGP router will wait for a BGP update from a neighbor before declaring the neighbor down. The link-down-failover setting tells BGP to immediately withdraw routes from a neighbor if the link to the neighbor goes down.

The update-source and set-route-tag settings do not affect routing convergence.

QUESTION 27

Refer to the exhibits.

Exhibit A



```
branch1 fgt (3) # show
config service
    edit 3
        set name "Corp"
        set mode sla
        set dst "Corp-net"
        set src "LAN-net"
        config sla
            edit "VPN PING"
                    set id 1
            next
            edit "VPN HTTP"
                    set id 1
            next
        end
        set priority-members 3 4 5
        set gateway enable
    next
end
```

Exhibit B

```
branch1 fgt # diagnose sys sdwan service 3
Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
   Gen(1), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(sla), sla-compare-order
   Members (2):
     1: Seq_num(5 T_MPLS_0), alive, sla(0x3), gid(0), cfg_order(2), cost(0), selected
     2: Seq_num(4 T_INET_1_0), alive, sla(0x1), gid(0), cfg_order(1), cost(0), selected 3: Seq_num(3 T_INET_0_0), alive, sla(0x0), gid(0), cfg_order(0), cost(0), selected
   Src address(1):
          10.0.1.0-10.0.1.255
   Dst address(1):
          10.0.0.0-10.255.255.255
branch1 fgt # get router info routing-table all | grep T
          10.0.0.0/8 [1/0] via T_INET_0_0 tunnel 100.64.1.1 [1/0] via T_INET_1_0 tunnel 100.64.1.9 10.201.1.254/32 [15/0] via T_INET_0_0 tunnel 100.64.1.1 10.202.1.254/32 [15/0] via T_INET_1_0 tunnel 100.64.1.9
          10.203.1.254/32 [15/0] via T_MPLS_0 tunnel 172.16.1.5
branch1 fgt # diagnose sys sdwan member | grep T
Member(3): interface: T_INET_0_0, flags=0x4 , gateway: 100.64.1.1, peer: 10.201.1.254,
priority: 0 1024, weight: 0
Member(4): interface: T_INET_1_0, flags=0x4 , gateway: 100.64.1.9, peer: 10.202.1.254,
priority: 0 1024, weight: 0
Member(5): interface: T_MPLS_0, flags=0x4 , gateway: 172.16.1.5, peer: 10.203.1.254,
priority: 0 1024, weight: 0
```

Exhibit A shows the configuration for an SD-WAN rule and exhibit B shows the respective rule status, the routing table, and the member status.



The administrator wants to understand the expected behavior for traffic matching the SD-WAN rule. Based on the exhibits, what can the administrator expect for traffic matching the SD-WAN rule?

- A. The traffic will be load balanced across all three overlays.
- B. The traffic will be routed over T_INET_0_0.
- C. The traffic will be routed over T MPLS 0.
- D. The traffic will be routed over T_INET_1_0.

Answer: D Explanation:

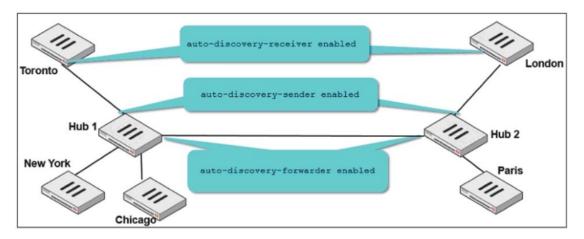
MPLS doesn't has valid route for destination AND set gateway enable without also set default enable will not allow packets to flow to this member without a valid route.

INET_1 has route and meets one sla target (0x1).

INET_0 has route but doesn't meet sla targets (0x0)

QUESTION 28

Refer to the exhibit.



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

QUESTION 29

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

QUESTION 30

Refer to the exhibit.

```
# 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: BC

QUESTION 31

Refer to the exhibit.

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 Explanation:

- C the [3] means that additional-path is enabled makes the duplicate routes are consolidated in the routing table
- D get router info routing table database shows duplicate routes without the [3]



QUESTION 32

In a hub-and-spoke topology, what are two advantages of enabling ADVPN on the IPsec overlays? (Choose two.)

- A. It provides the benefits of a full-mesh topology in a hub-and-spoke network.
- B. It provides direct connectivity between spokes by creating shortcuts.
- C. It enables spokes to bypass the hub during shortcut negotiation.
- D. It enables spokes to establish shortcuts to third-party gateways.

Answer: AB

QUESTION 33

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 Explanation:

These are the components that make up the secure SD-WAN solution from Fortinet.

- FortiGate is the physical or virtual security appliance that provides the core security functionality for the SD-WAN solution.
- FortiManager is the central management platform for the SD-WAN solution. It provides centralized configuration, provisioning, and monitoring of FortiGate appliances.
- FortiAnalyzer is the centralized security analytics platform for the SD-WAN solution. It collects and analyzes security logs from FortiGate appliances to provide visibility into security threats and incidents.
- FortiDeploy is the provisioning and orchestration tool for the SD-WAN solution. It automates the deployment and configuration of FortiGate appliances.

QUESTION 34

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

QUESTION 35

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

QUESTION 36

Which two statements describe how IPsec phase 1 main mode is different from aggressive mode when performing IKE negotiation? (Choose two)



- A. A peer ID is included in the first packet from the initiator, along with suggested security policies.
- B. XAuth is enabled as an additional level of authentication, which requires a username and password.
- C. A total of six packets are exchanged between an initiator and a responder instead of three packets.
- D. The use of Diffie Hellman keys is limited by the responder and needs initiator acceptance.

Answer: BC

QUESTION 37

Refer to the exhibit.

```
FortiGate # diagnose sys session list
session info: proto=1 proto state=00 duration=25 expire=34 timeout=0 flags=00000000
socktype=0 sockport=0 av idx=0 use=3
origin-shaper=
reply-shaper=
per_ip_shaper=
class_id=0 ha_id=0 policy_dir=0 tunnel=/ vlan_cos=0/255
state=dirty may_dirty
statistic(bytes/packets/allow err): org=84/1/1 reply=84/1/1 tupless=2
tx speed(Bps/kbps): 0/0 rx speed(Bps/kbps): 0/0
orgin->sink: org pre->post, reply pre->post dev=5->4/4->5 gwy=192.168.73.2/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:2246->8.8.8.8:8(192.168.73.132:62662)
hook=pre dir=reply act=dnat 8.8.8.8:62662->192.168.73.132:0(10.0.1.10:2246)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000a2c tos=ff/ff app list=0 app=0 url cat=0
rpdb_link_id= 80000000 rpdb_svc_id=0 ngfwid=n/a
npu state=0x040000
total session 1
```

Based on the exhibit, which statement about FortiGate re-evaluating traffic is true?

- A. The type of traffic defined and allowed on firewall policy ID 1 is UDP.
- B. FortiGate has terminated the session after a change on policy ID 1.
- C. Changes have been made on firewall policy ID 1 on FortiGate.
- D. Firewall policy ID 1 has source NAT disabled.

Answer: C

QUESTION 38

Refer to the exhibit.



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.

QUESTION 39

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:

The diagnose debug application ike command displays real-time debugging information for the IKE protocol. This information can be used to troubleshoot ADVPN negotiation problems.

QUESTION 40

Refer to the exhibit.

Exhibit A



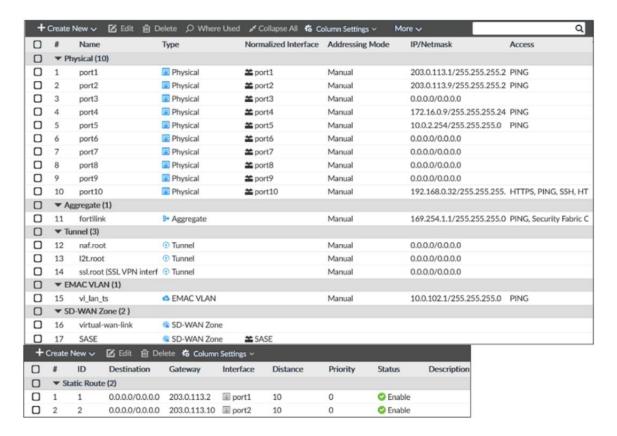


Exhibit B

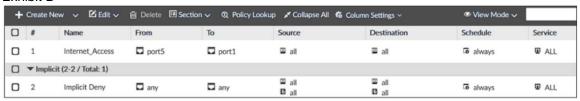


Exhibit A shows the system interface with the static routes and exhibit B shows the firewall policies on the managed FortiGate.

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

QUESTION 41

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

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 42

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,
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
        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

QUESTION 43

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.)

- FortiGate flushes all sessions.
- B. FortiGate terminates the old sessions.
- C. FortiGate does not change existing sessions.
- D. FortiGate evaluates new sessions.

Answer: CD Explanation:

FortiGate not to flag existing impacted session as dirty by setting firewall-session-dirty to check new. The results is that FortiGate evaluates only new session against the new firewall policy.

QUESTION 44

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

- A. The objects are saved in the ADOM common object database.
- B. It does not support meta fields.
- C. It uses templates to configure SD-WAN on managed devices.
- D. It supports normalized interfaces for SD-WAN member configuration.

Answer: AC Explanation:

Normalized interfaces are not supported for SD-WAN templates. You can create multiple SD-WAN zones and add interface members to the SD-WAN zones. You must bind the interface members by name to physical interfaces or VPN interfaces.

QUESTION 45

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.



QUESTION 46

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

```
dc1_fgt # show vpn ipsec phase1-interface T_INET_1_0
config vpn ipsec phase1-interface
    edit "T_INET_1_0"
        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 psksecret ENC
GayzHJ/UhxCc9FYtwas5o4rkNCMjjNUEj4Q4fZNS6I65RIVF9zum6sJALsU9Cg+1jsXz3ZtIM+WNkHLsXkHqydgS
G/Zx8Vp9Rcht6zKHPectOcFVbaG+UeO3Rw41pmGP/Z3rIz3tdXJxfYSzKjRqggqahsmDovkrKRHTVFUlzA07Zt6W
iPL9co/Zf3cX+Qpnmm38MQ==
    next
end
```

```
dcl_fgt # diagnose vpn tunnel list name T_INET_1_0_0
list ipsec tunnel by names in vd 0
name=T_INET_1_0_0 ver=2 serial=7 100.64.1.9:0->192.2.0.9:0 tun_id=192.2.0.9 dst_mtu=0
dpd-link=on weight=1
bound if=4 lgwy=static/1 tun=tunnel/255 mode=dial inst/3 encap=none/8832
options[2280]=rgwy-chg frag-rfc run state=0 accept traffic=1 overlay id=0
parent=T_INET_1_0 index=0
proxyid num=1 child num=0 refcnt=6 ilast=17 olast=23464 ad=/0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000ms retry=3 count=0 seqno=1
natt: mode=none draft=0 interval=0 remote port=0
proxyid=T_INET_1_0_0 proto=0 sa=1 ref=2 serial=1 add-route 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=20683 type=00 soft=0 mtu=1280 expire=972/0B replaywin=2048
       segno=1 esn=0 replaywin lastseg=000000000 itn=0 qat=0 hash search len=1
  life: type=01 bytes=0/0 timeout=1790/1800
  dec: spi=02f9844e esp=aes key=16 7fb5011247248d3a45ac3d802d8c8d64
       ah=sha1 key=20 bb217ce87ae060f27823b005005233811993a303
  enc: spi=ffc6576a esp=aes key=16 825bddbc5c995feb70411a773867c2d0
       ah=sha1 key=20 02db4176f7f21fae7d141526099a707f639893f1
  dec:pkts/bytes=0/0, enc:pkts/bytes=0/0
```

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

Answer: AB

QUESTION 47

Refer to the exhibits.

Exhibit A



```
config system global
set snat-route-change enable
end
```

Exhibit B

Exhibit A shows the source NAT (SNAT) global setting and exhibit B shows the routing table on FortiGate.

Based on the exhibits, which two actions does FortiGate perform on existing sessions established over port2, if the administrator increases the static route priority on port2 to 20? (Choose two.)

- A. FortiGate flags the sessions as dirty.
- B. FortiGate continues routing the sessions with no SNAT, over port2.
- C. FortiGate performs a route lookup for the original traffic only.
- D. FortiGate updates the gateway information of the sessions with SNAT so that they use port1 instead of port2.

Answer: AD

QUESTION 48

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

QUESTION 49

Refer to the exhibits.

Exhibit A



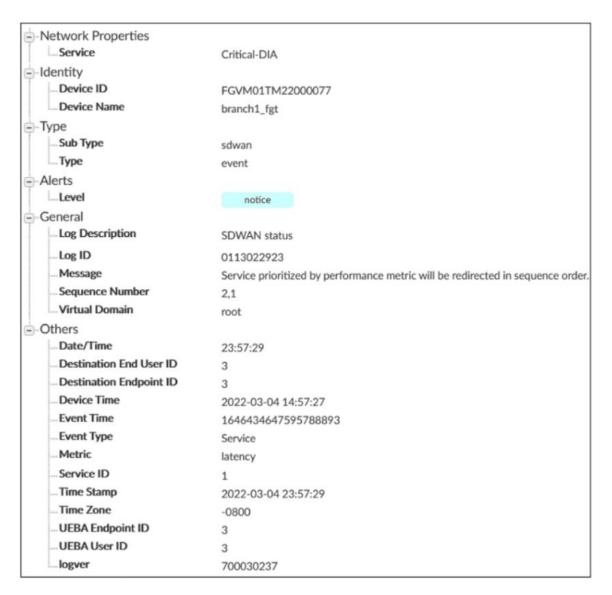


Exhibit B

```
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 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

QUESTION 50

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

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

Answer: BD

QUESTION 51

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

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

Answer: AD

QUESTION 52

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

QUESTION 53

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



QUESTION 54

Which diagnostic command can you use to show the configured SD-WAN zones and their assigned members?

- A. diagnose sys sdwan zone
- B. diagnose sys sdwan service
- C. diagnose sys sdwan member
- D. diagnose sys sdwan interface

Answer: A Explanation:

diagnose sys sdwan zone displays the configured zones and their members. Note that the output indicates the kernel interface index number of a member, which should match the index displayed by diagnose netlink interface list.

QUESTION 55

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 # diag sys sdwan zone
Zone overlay index=3
    members(3): 19(T_INET_0) 20(T_INET_1) 21(T_MPLS)
Zone underlay index=2
    members(2): 3(port1) 4(port2)
Zone virtual-wan-link index=1
    members(0):
```

```
17.779659 port5 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
17.779717 T_INET_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
17.779795 T_INET_1 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
17.779821 T_MPLS out 10.0.1.101 -> 10.1.0.7: icmp: echo request
17.781852 T_INET_1 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
17.781874 port5 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit B



```
3.679621 T_INET_1 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.679735 port5 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.679798 T_INET_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.679835 T_MPLS in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.681827 port5 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
3.681853 T_INET_1 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.

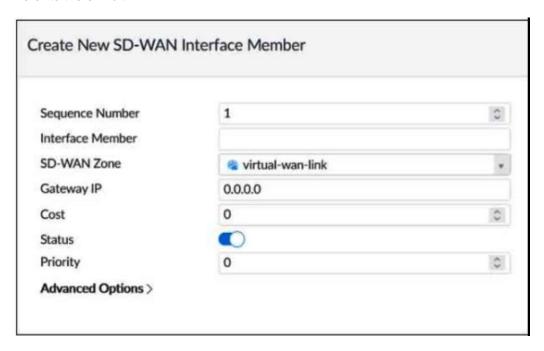
Based on the output shown in the exhibits, which two reasons can cause the observed behavior? (Choose two.)

- 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

QUESTION 56

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

QUESTION 57

Which statement about using BGP for ADVPN is true?

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

Answer: A

QUESTION 58

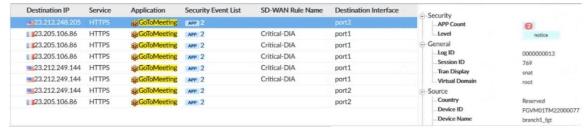
Refer to the exhibits.

Exhibit A.

```
branchl fgt # diagnose sys sdwan service
Service(1): Address Mode(IFV4) flags=0x200 use-shortcut-sla
 Tie break: cfg
  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(4294836841,0,0,0,0 16354)
  Microsoft.Office.365.Portal(4294837312,0,0,0,0 41468) Salesforce(42948377 84,0,0,0,0 16920)
  Src address(1):
         10.0.1.0-10.0.1.255
Service(2): Address Mode(IFV4) flags=0x200 use-shortcut-sla
 Tie break: cfg
  Gen (7), TOS (0x0/0x0), Protocol (0: 1->65535), Mode (manual)
  Members(1):
         1: Seq_num(2 port2), alive, selected
 Internet Service(2): Facebook(4294836714,0,0,0,0 15832) Twitter(4294838045,0,0,0,0 16001)
  Src address(1):
         10.0.1.0-10.0.1.255
branchl_fgt # diagnose sys sdwan internet-service-app-ctrl-list
Facebook(15832 4294836714): 157.240.229.35 6 443 Wed Apr 26 07:49:30 2023
GoToMeeting(16354 4294836841): 23.205.106.86 6 443 Wed Apr 26 07:49:30 2023
GoToMeeting(16354 4294836841): 23.212.249.144 6 443 Wed Apr 26 07:49:31 2023
Salesforce(16920 4294837784): 23.212.249.11 6 443 Wed Apr 26 07:49:30 2023
branch1_fgt # get router info routing-table all
5*
       0.0.0.0/0 [1/0] via 192.2.0.2, port1, [1/0]
                 [1/0] via 192.2.0.10, port2, [1/0]
```



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: AC

QUESTION 59

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

QUESTION 60

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

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

Answer: BD