

Fortinet

Exam Questions FCSS_SDW_AR-7.6

FCSS - SD-WAN 7.6 Architect



NEW QUESTION 1

Refer to the exhibit.

```

config system sdwan
  config health_check
    edit "DNS"
      set server "4.2.2.1" "4.2.2.2"
      set detect-mode active
      set protocol ping
      set embed-measured-health enable
      set members 3 4
    config sla
      edit 1
        set link-cost-factor latency
        set latency-threshold 100
      end
    next
  end
end
end

```

The exhibit shows the health-check configuration on a FortiGate device used as a spoke. You notice that the hub FortiGate doesn't prioritize the traffic as expected.

Which two configuration elements should you check on the hub? (Choose two.)

- A. The performance SLA has the parameter priority-out-sla configured.
- B. This performance SLA uses the same members.
- C. The performance SLA uses the same criteria.
- D. The performance SLA is configured with set embedded-measure accept.

Answer: CD

NEW QUESTION 2

Within the context of SD-WAN, what does SIA correspond to?

- A. Remote Breakout
- B. Local Breakout
- C. Software Internet Access
- D. Secure Internet Authorization

Answer: B

NEW QUESTION 3

Refer to the exhibits.

SD-WAN service details

```
branch1_fgt # diagnose sys sdwan service4

Service(1): Address Mode(IPV4) flags=0x4200 use-shortcut-sla use-shortcut
Tie break: cfg
Shortcut priority: 2
Gen(2), TOS(0x0/0x0), Protocol(0): src(1->65535):dst(1->65535), Mode(manual)
Members(2):
  1: Seq_num(1 port1 underlay), alive, selected
  2: Seq_num(2 port2 underlay), alive, selected
Application Control(3): Microsoft.Portal(41469,0) Salesforce(16920,0) Collaboration(0,28)
Src address(1):
10.0.1.0-10.0.1.255

Service(2): Address Mode(IPV4) flags=0x4200 use-shortcut-sla use-shortcut
Tie break: cfg
Shortcut priority: 2
Gen(2), TOS(0x0/0x0), Protocol(0): src(1->65535):dst(1->65535), Mode(manual)
Members(1):
  1: Seq_num(2 port2 underlay), alive, selected
Application Control(3): Facebook(15832,0) LinkedIn(16331,0) Game(0,8)
Src address(1):
10.0.1.0-10.0.1.255

branch1_fgt # diagnose sys sdwan internet-service-app-ctrl-list
List App Ctrl Database Entry(IPv4) in Kernel:

Max_App_Ctrl_Size=32768 Num_App_Ctrl_Entry=6

Microsoft.Portal (41469 28): IP=184.27.181.201 6 443
MSN.Game(16135 8): IP=13.107.246.36 6 443
Salesforce(16920 29): IP=23.205.255.92 6 443
GoToMeeting (16354 28): IP=23.205.106.86 6 443
GoToMeeting (16354 28): IP=23.212.249.144 6 443
Facebook(15832 23): IP=31.13.80.36 6 443

branch1_fgt # get router info routing-table all
...
```

in FortiAnalyzer

Application	Security Event List	SD-WAN Rule Name	Destination Interface
GoToMeeting	APP 2		port2
GoToMeeting	APP 2	Critical-DIA	port1
GoToMeeting	APP 2	Critical-DIA	port1
GoToMeeting	APP 2	Critical-DIA	port1
GoToMeeting	APP 2	Critical-DIA	port1
GoToMeeting	APP 2	Critical-DIA	port1
GoToMeeting	APP 2		port2
GoToMeeting	APP 2		port2

Security	APP Count	2
	Level	notice
General	Log ID	0000000013
	Session ID	769
	Tran Display	snat
	Virtual Domain	root
Source	Country	Reserved
	Device ID	FGVM01TM22000077
	Device Name	branch1_fgt
	IP	10.0.1.101
	Interface	port5
	Interface Role	undefined
	NAT IP	192.2.0.9
	NAT Port	51042
	Port	51042
	Source	10.0.1.101
	UEBA Endpoint ID	1025
	UEBA User ID	3
Destination	Country	United States
	End User ID	3
	Endpoint ID	101
	Host Name	www.gotomeeting.com
	IP	23.212.248.205
	Interface	port2

An administrator is testing application steering in SD-WAN. Before generating test traffic, the administrator collected the information shown in the first exhibit. After generating GoToMeeting test traffic, the administrator examined the corresponding traffic log on FortiAnalyzer, which is shown in the second exhibit. 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 some log messages show that the traffic matched the implicit SD-WAN rule? (Choose two.)

- A. Full SSL inspection is not enabled on the matching firewall policy.
- B. The session 3-tuple did not match any of the existing entries in the ISDB application cache.
- C. FortiGate could not refresh the routing information on the session after the application was detected.
- D. No configured SD-WAN rule matches the traffic related to the collaboration application GoToMeeting

Answer: BD

NEW QUESTION 4

SD-WAN interacts with many other FortiGate features. Some of them are required to allow SD-WAN to steer the traffic.

Which three configuration elements that you must configure before FortiGate can steer traffic according to SD-WAN rules? (Choose three.)

- A. Firewall policies
- B. Interfaces
- C. Security profiles
- D. Traffic shaping
- E. Routing

Answer: ABE

NEW QUESTION 5

As an IT manager for a healthcare company, you want to delegate the installation and management of your SD-WAN deployment to a managed security service provider (MSSP). Each site must maintain direct internet access and ensure that it is secure. You expected significant traffic flow between the sites and want to delegate as much of the network administration and management as possible to the MSSP.

Which two MSSP deployment blueprints best address the customer's requirements? (Choose two.)

- A. Use a shared hub at the MSSP premises with a dedicated VDOM for the new customer, and install the spokes at the customer premises.
- B. Use a shared hub at the MSSP premises and a dedicated hub at the customer premises and install the spokes at the customer premises.
- C. Install a dedicated hub at the MSSP premises for the new customer, and install the spokes at the customer premises.
- D. Install the hub and spokes at the customer premises and enable the MSSP to manage the SD-WAN deployment using FortiManager with a dedicated ADOM.

Answer: AC

NEW QUESTION 6

Your FortiGate is in production. To optimize WAN link use and improve redundancy, you enable and configure SD-WAN.

What must you do as part of this configuration update process?

- A. Replace references to interfaces used as SD-WAN members in the routing configuration.
- B. Purchase and install the SD-WAN license, and reboot the FortiGate device.
- C. Replace references to interfaces used as SD-WAN members in the firewall policies.
- D. Disable the interface that you want to use as an SD-WAN member.

Answer: C

NEW QUESTION 7

Refer to the exhibit.

Session details

```
# diagnose sys session list

session info: proto=6 proto_state=01 duration=39 expire=3593 timeout=3600
flags=00000000
socktype=0 sockport=0 av_idxe=0 use=4
state=may dirty npu
origin->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_servic_id=1
rpdb_link_id=800000000 rpdb_svc_id=0 ngfwid=n/a
npu_state= x4000c00
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 device that supports hardware offloading. Based on the information shown in the exhibits, which two conclusions can you draw? (Choose two.)

- A. By default, FortiGate offloads symmetric and asymmetric flows.
- B. The original direction of the symmetric traffic flows from port3 to port2.
- C. The reply direction of the asymmetric traffic flows from port2 to port3.
- D. The auxiliary session can be offloaded to hardware.

Answer: BC

NEW QUESTION 8

(Refer to the exhibit.)

```
pke_fgt # diagnose sys sdwan advpn-session
Session head(jfk-0-HUB1:1)
(1) Service ID(3), last access(4136110), remote health check info(3)
Selected path: local(HUB1-VPN1, port1) gw: 192.2.0.1 remote IP: 203.0.113.1(192.168.1.2)
Remote information:
1: latency: 1.833133 jitter: 0.482600 pktloss: 0.000000 mos: 4.403007 sla: 0x1 cost: 0 remote gw: HUB1-VPN1
transport_group: 1 bandwidth up: 10239 down: 10239 bidirection: 20478 ipv4: 203.0.113.1(192.168.1.2) ipv6
::1bc2(20e6:7e0c:fe7f:0:1c:256d:487:1bc2)
2: latency: 1.725933 jitter: 0.469833 pktloss: 0.000000 mos: 4.403073 sla: 0x1 cost: 0 remote gw: HUB1-VPN2
transport_group: 1 bandwidth up: 10239 down: 10239 bidirection: 20478 ipv4: 203.0.113.9(192.168.1.66) ipv6
6465:7228:3229:2c20:6c6f:6361:6c20:636f(7374:2830:292c:2073:6563:7465:6400)
3: latency: 1.240333 jitter: 0.269700 pktloss: 0.000000 mos: 4.403513 sla: 0x1 cost: 0 remote gw: HUB1-VPN3
transport_group: 0 bandwidth up: 9999999 down: 9999999 bidirection: 19999998 ipv4: 172.16.0.9(192.168.1.130)
ipv6 ::(::)
```

Based on the output shown in the exhibit, what can you conclude about the device role and how it handles health checks? Choose one answer.)

- A. The device is a spoke and it provides embedded health-check measures for each tunnel to the hub.
- B. The device is a spoke and it receives health-check measures for the tunnels of another spoke.
- C. The device is a hub and it receives embedded health-check measures for each tunnel from the spoke.
- D. The device is a hub and it receives health-check measures for the tunnels of a spoke.

Answer: A

NEW QUESTION 9

(In the context of SD-WAN, the terms underlay and overlay are commonly used to categorize links. Which two statements about underlay and overlay links are correct? Choose two answers.)

- A. A VLAN is a type of overlay link.
- B. Overlay links provide routing flexibility.
- C. FortiLink interface is considered an underlay link.
- D. Wireless connections can be used to build overlay links.
- E. Only wired connections can be used as underlay links.

Answer: BD

NEW QUESTION 10

You have a FortiGate configuration with three user-defined SD-WAN zones and two members in each of these zones. One SD-WAN member is no longer in use in health-check and SD-WAN rules. You want to delete it. What happens if you delete the SD-WAN member from the FortiGate GUI?

- A. FortiGate accepts the deletion and removes routes as required.
- B. FortiGate displays an error message
- C. You must use the CLI to delete an SD-WAN member.
- D. FortiGate displays an error message
- E. SD-WAN zones must contain at least two members
- F. FortiGate accepts the deletion and places the member in the default SD-WAN zone.

Answer: A

NEW QUESTION 10

Refer to the exhibit that shows a diagnose output on FortiGate.

```
pke_fgt # diagnose sys sdwan advpn-session
Session head(jfk-0-HUB1:1)
(1) Service ID(3), last access(4136110), remote health check info(3)
Selected path: local(HUB1-VPN1, port1) gw: 192.2.0.1 remote IP: 203.0.113.1
(192.168.1.2)
Remote information:
1: latency: 1.833133 jitter: 0.482600 pktloss: 0.000000 mos: 4.403007 sla: 0x1
cost: 0 remote gw: HUB1-VPN1 transport_group: 1 bandwidth up: 10239 down: 10239
bidirection: 2048 ipv4: 203.0.113.1(192.168.1.2) ipv6
::1bc2(20e6:7e0c:fe7f:0:1c:256d:487:1bc2)
2: latency: 1.725933 jitter: 0.469833 pktloss: 0.000000 mos: 4.403073 sla: 0x1
cost: 0 remote gw: HUB1-VPN2 transport_group: 1 bandwidth up: 10239 down: 10239
bidirection: 2048 ipv4: 203.0.113.9(192.168.1.66) ipv6
6465:7228:3229:2c20:6c6f:6361:6c20:636f(7374:2830:292c:2073:6563:7465:6400)
3: latency: 1.240333 jitter: 0.269700 pktloss: 0.000000 mos: 4.403513 sla: 0x1
cost: 0 remote gw: HUB1-VPN3 transport_group: 0 bandwidth up: 9999999 down:
9999999 bidirection: 19999998 ipv4: 172.16.0.9(192.168.1.130)
```

Based on the output shown in the exhibit, what can you say about the device role and how it handles health checks?

- A. The device is a spok
- B. It receives health-check measures for the tunnels of another spoke.
- C. The device is a hu
- D. It receives embedded health-check measures for each tunnel from the spoke.
- E. The device is a spok
- F. It provides embedded health-check measures for each tunnel to the hub.
- G. The device is a hu
- H. It receives health-check measures for the tunnels of a spoke.

Answer: C

NEW QUESTION 15

You configured an SD-WAN rule with the best quality strategy and selected the predefined health check, Default_FortiGuard, to check the link performances against FortiGuard servers.

For the quality criteria, you selected Custom-profile-1.

Which factors does FortiGate use, and in which order, to determine the link that it should use to steer the traffic?

- A. Latency – Member configuration order – Link cost threshold
- B. Link quality index – Member configuration order – Link cost threshold
- C. Links that meet the SLA targets – Member configuration order – Member local cost
- D. Latency – Jitter - Packet loss – Bibandwidth – Member configuration order

Answer: C

NEW QUESTION 16

An administrator is configuring SD-WAN to load balance their network traffic. Which two things should they consider when setting up SD-WAN? (Choose two.)

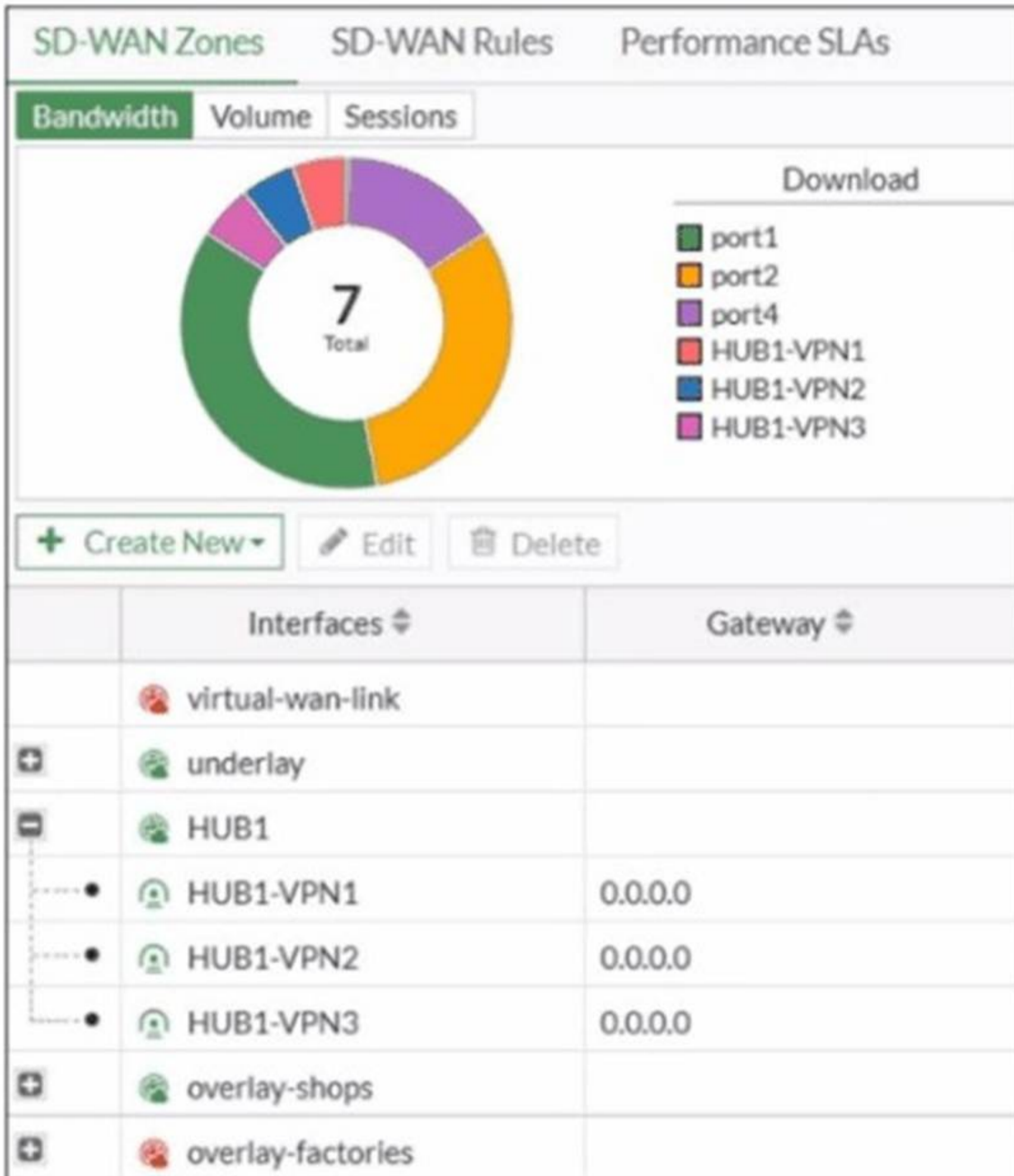
- A. You can select the outbandwidth hash mode with all strategies that allow load balancing.
- B. Only the manual and best-quality strategies allow SD-WAN load balancing.
- C. When applicabl
- D. FortiGate load balances the traffic through all members that meet the SLA target.
- E. SD-WAN load balancing is possible only using the best quality and lowest cost (SLA) strategies.

Answer: AC

NEW QUESTION 19

Exhibit.

SD-WAN zones



Refer to the exhibit, which shows an SD-WAN zone configuration on the FortiGate GUI. What can you conclude about the zone and member configuration on this device?

- A. The underlay zone contains three members.
- B. You can delete the virtual-wan-link zones.
- C. The overlay-factories zone contains no member.
- D. You can move HUB1-VPN3 from the HUB1 zone to the overlay-shops zone.

Answer: C

NEW QUESTION 22

The administrator uses the FortiManager SD-WAN overlay template to prepare an SD-WAN deployment. Using information provided through the SD-WAN overlay template wizard, FortiManager creates templates ready to install on the spoke and hub devices.

What are the three templates created by the SD-WAN overlay template for a spoke device? (Choose three.)

- A. Static route template

- B. Rules template
- C. CLI template
- D. BGP template
- E. IPsec tunnel template

Answer: BDE

NEW QUESTION 23

Refer to the exhibit.

An administrator checks the status of an SD-WAN topology using the FortiManager SD-WAN monitor menus. All members are configured with one or two SLAs. Which two conclusions can you draw from the output shown? (Choose two.)

- A. The template view should be used to see the hub devices.
- B. One member of branch2_fgt is missing the SLAs.
- C. branch2_fgt establishes six tunnels to the hubs and they are all up.
- D. This SD-WAN topology contains only two branch devices.

Answer: BD

NEW QUESTION 28

(In which order does FortiGate consider the following elements during the route lookup process? Choose one answer.)

- A. SD-WAN rules, ISDB routes, policy routes, BGP routes
- B. Policy routes, SD-WAN rules, Internet Service Database (ISDB) routes, BGP routes
- C. SD-WAN rules, policy routes, static routes, ISDB routes
- D. Policy routes, ISDB routes, SD-WAN rules, static routes

Answer: D

NEW QUESTION 31

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 two mandatory post-run tasks that must be performed? (Choose two.)

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

Answer: BD

NEW QUESTION 35

Refer to the exhibit.

BGP configuration

```

config router bgp
  set as 65000
  set router-id 10.200.99.253
  set ibgp-multipath enable
  set additional-path enable
  set additional-path-select 3
config neighbor-group
  edit "VPN1"
    set soft-reconfiguration enable
    set remote-as 65000
  next
  edit "VPN2"
    set soft-reconfiguration enable
    set remote-as 65000
  next
  edit "VPN3"
    set soft-reconfiguration enable
    set remote-as 65000
  next
end
config neighbor-range
  edit 1
    set prefix 192.168.1.0 255.255.255.192
    set neighbor-group "VPN1"
  next
  edit 2
    set prefix 192.168.1.64 255.255.255.192
    set neighbor-group "VPN2"
  next
  edit 3
    set prefix 192.168.1.128 255.255.255.192
    set neighbor-group "VPN3"
  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

Which three settings must the administrator configure inside each BGP neighbor group so spokes can learn the prefixes of other spokes and their additional paths? (Choose three.)

- A. Set additional-path to send
- B. Set additional-path to forward
- C. Enable route-reflector-server
- D. Enable route-reflector-client.
- E. Set adv-additional-path to the number of additional paths to advertise.

Answer: ADE

NEW QUESTION 36

Refer to the exhibits.

SD-WAN zone HUB1 and SD-WAN member configuration

SD-WAN Zones							
<input type="button" value="+ Create New"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="text" value="Where Used"/> <input type="text" value="Search..."/>							
<input type="checkbox"/>	ID	Interface	Gateway	Cost	Priority	Status	Installation Target
<input type="checkbox"/>	HUB1						
<input type="checkbox"/>	4	HUB1-VPN1	0.0.0.0	0	1	Enable	
<input type="checkbox"/>	5	HUB1-VPN2	0.0.0.0	0	1	Enable	3 Devices in Total View Details > branch1_fgt[root] branch2_fgt[root] branch3_fgt[root]
<input type="checkbox"/>	6	HUB1-VPN3	0.0.0.0	0	1	Enable	2 Devices in Total View Details > branch2_fgt[root] branch3_fgt[root]

SD-WAN zone HUB2 and SD-WAN member configuration

<input type="checkbox"/>	HUB2						
<input type="checkbox"/>	7	HUB2-VPN1	0.0.0.0	10	1	Enable	3 Devices in Total View Details > branch1_fgt[root] branch2_fgt[root] branch3_fgt[root]
<input type="checkbox"/>	8	HUB2-VPN2	0.0.0.0	10	1	Enable	
<input type="checkbox"/>	9	HUB2-VPN3	0.0.0.0	10	1	Enable	

Output of command diagnose sys sdwan member

```

_fgt # diagnose sys sdwan member
Member (4) : transport-group: 0, interface: HUB1-VPN1, flags=0xd
Member (5) : transport-group: 0, interface: HUB1-VPN2, flags=0xd
Member (7) : transport-group: 0, interface: HUB2-VPN1, flags=0xd
Member (8) : transport-group: 0, interface: HUB2-VPN2, flags=0xd
Member (9) : transport-group: 0, interface: HUB2-VPN3, flags=0xd
    
```

The first exhibit shows the SD-WAN zone HUB1 and SD-WAN member configuration from an SD-WAN template, and the second exhibit shows the output of command diagnose sys sdwan member collected on a FortiGate device.

Which statement best describes what the diagnose output shows?

- A. The diagnose output shows that HUB1-VPN1 and all HUBx-VPNy members are dead.
- B. The diagnose output does not correspond to a device configured with the SD-WAN template shown in the exhibit.
- C. The diagnose output was collected on the device branch2_fgt.
- D. The diagnose output was collected on the device branch1_fgt

Answer: D

NEW QUESTION 40

(Refer to the exhibits.

SD-WAN overlay template advanced settings

Advanced ▾

Loopback IP Address	<input type="text" value="10.200.99.252/255.255.255.0"/>
Overlay Network	<input type="text" value="10.200.99.0/255.255.255.0"/>
BGP-AS Number	<input type="text" value="65000"/>
BGP on Loopback	<input type="checkbox"/>
Dynamic BGP	<input checked="" type="checkbox"/>
Route Reflection	<input type="checkbox"/>
Auto-Discovery VPN	<input checked="" type="button" value="Disable"/> <input type="button" value="Legacy"/> <input type="button" value="ADVPN 2.0"/>
Segmentation Over Single Overlay ⓘ	<input type="checkbox"/>

Underlay and network advertisement configuration

Secondary HUB

Underlay

	<input type="text" value="dc2_fgt"/>	Cost	<input type="text"/>	
	#	Private Link ⓘ	Override IP ⓘ	Action
WAN Underlay 1	<input type="checkbox"/>	<input type="text" value="port1"/>	<input type="checkbox"/>	<input type="button" value="x"/> <input type="button" value="+"/>
WAN Underlay 2	<input checked="" type="checkbox"/>	<input type="text" value="port2"/>		<input type="button" value="x"/> <input type="button" value="+"/>

Network Advertisement

	<input checked="" type="button" value="Connected"/>	<input type="button" value="Static"/>		
	#	Interface	Action	
Interface 1	<input type="text" value="port5"/>		<input type="button" value="x"/> <input type="button" value="+"/>	

The SD-WAN overlay template advanced settings and the underlay and network advertisement settings are shown. These are the configurations for the secondary hub of a dual-hub SD-WAN topology created with the FortiManager SD-WAN overlay orchestrator. Which two conclusions can you draw from the information shown in the exhibits? Choose two answers.)

- A. FortiManager will define port2 as a BGP neighbor.
- B. FortiManager will create an overlay tunnel on the port2 interface.
- C. FortiManager will create an overlay tunnel on the port1 interface.
- D. FortiManager will define port5 as a BGP neighbor.

Answer: BC

NEW QUESTION 43

Refer to the exhibit, which shows the SD-WAN rule status and configuration.

SD-WAN rule status and configuration

```
branch1_fgt # diagnose sys sdwan service4 3

Service(3): Address Mode(IPV4) flags=0x4200 use-shortcut-sla use-shortcut
Tie break: cfg
Shortcut priority:2
Gen(43), TOS(0x0/0x0), Protocol(0): src(1->65535):dst(1->65535), Mode(priority),
link-cost-factor(packet loss), link-cost-threshold(10), health-check(HUB1_HC)
Members(3):
  1: Seq_num(4 HUB1-VPN1 HUB1), alive, latency: 96.349, selected
  2: Seq_num(5 HUB1-VPN2 HUB1), alive, latency: 141.278, selected
  3: Seq_num(6 HUB1-VPN3 HUB1), alive, latency: 190.984, 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 (service) # show
config service
edit 3
  set name "Corp"
  set mode priority
  set dst "Corp-net"
  set src "LAN-net"
  set health-check "HUB1_HC"
  set link-cost-factor packet-loss
  set link-cost-threshold 0
  set priority-members 4 5 6
next
```

Based on the exhibit, which change in the measured latency will first make HUB1-VPN3 the new preferred member?

- A. When HUB1-VPN3 has a lower latency than HUB1-VPN1 and HUB1-VPN2
- B. When HUB1-VPN3 has a latency of 80 ms
- C. When HUB1-VPN3 has a latency of 90 ms
- D. When HUB1-VPN1 has a latency of 200 ms

Answer: D

NEW QUESTION 46

(Refer to the exhibit.)

Refer to the exhibit.

```

London_1 # diagnose sys sdwan service4 3

Service(3): Address Mode(IPV4) flags=0x4200 use-shortcut-sla use-shortcut
Tie break: cfg
Shortcut priority: 3
Gen(33), TOS(0x0/0x0), Protocol(0): src(1->65535):dst(1->65535), Mode(sla), sla-compare-order
Member sub interface(9):
  4: seq_num(4), interface(HUB1-VPN1):
    1: HUB1-VPN1_0(30)
    2: HUB1-VPN1_1(35)
  5: seq_num(5), interface(HUB1-VPN2):
    1: HUB1-VPN2_0(31)
Members(9):
  1: Seq_num(4 HUB1-VPN1_1 HUB1), alive, sla(0x1), gid(0), cfg_order(0), local cost(0), selected
  2: Seq_num(4 HUB1-VPN1_0 HUB1), alive, sla(0x1), gid(0), cfg_order(0), local cost(0), selected
  3: Seq_num(5 HUB1-VPN2_0 HUB1), alive, sla(0x1), gid(0), cfg_order(1), local cost(0), selected
  4: Seq_num(4 HUB1-VPN1 HUB1), alive, sla(0x1), gid(0), cfg_order(0), local cost(0), selected
  5: Seq_num(5 HUB1-VPN2 HUB1), alive, sla(0x1), gid(0), cfg_order(1), local cost(0), selected
  6: Seq_num(6 HUB1-VPN3 HUB1), alive, sla(0x1), gid(0), cfg_order(2), local cost(0), selected
  7: Seq_num(7 HUB2-VPN1 HUB2), alive, sla(0x2), gid(0), cfg_order(3), local cost(10), selected
  8: Seq_num(8 HUB2-VPN2 HUB2), alive, sla(0x2), gid(0), cfg_order(4), local cost(10), selected
  9: Seq_num(9 HUB2-VPN3 HUB2), alive, sla(0x2), gid(0), cfg_order(5), local cost(10), selected
Src address(2):
  10.0.0.0-10.255.255.255
  10.0.1.0-10.0.1.255
Dst address(2):
  10.0.1.0-10.0.1.255
  10.0.0.0-10.255.255.255

```

What can you conclude from the output shown? Choose one answer.)

- A. It is a spoke device
- B. SD-WAN rule 3 is configured with nine members.
- C. It is a spoke device
- D. The members of SD-WAN rule 3 are grouped into two zones.
- E. It is a hub device
- F. It allowed the establishment of three auto-discovery VPN (ADVPN) shortcuts.
- G. It is a spoke device
- H. SD-WAN rule 4 allows three shortcut tunnels.

Answer: A

NEW QUESTION 48

You are planning a large SD-WAN deployment with approximately 1000 spokes and want to allow ADVPN between the spokes. Some remote sites use FortiSASE to connect to the company's SD-WAN hub. Which overlay routing configuration should you use?





- A. BGP on loopback with dynamic BGP for ADVPN shortcut routing.
- B. BGP on loopback with IPsec phase2 selectors for ADVPN shortcut routing.
- C. BGP per overlay with dynamic BGP for ADVPN shortcut routing.
- D. BGP per overlay with BGP next-hop convergence for ADVPN shortcut routing.

Answer: A

NEW QUESTION 52

The FortiGate devices are managed by FortiManager, and are configured for direct internet access (DIA). You confirm that DIA is working as expected for each branch, and check the SD-WAN zone configuration and firewall policies shown in the exhibits.

SD-WAN zones

SD-WAN Zones ▾						
<input type="button" value="+ Create New ▾"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/> <input type="text" value="Where Used"/> <input type="text" value="Search..."/>						
<input type="checkbox"/>	ID ▾	Interface ▾	Gateway ▾	Cost ▾	Priority ▾	Status ▾
<input type="checkbox"/>	 virtual-wan-link					
<input type="checkbox"/>	 underlay					
<input type="checkbox"/>	1	 port1	\$(sdwan_port1_gw)	0	1	<input checked="" type="checkbox"/> Enable
<input type="checkbox"/>	2	 port2	\$(sdwan_port2_gw)	0	1	<input checked="" type="checkbox"/> Enable

Firewall Policy

ID	Name	From	To	Source	Destination	Service	Action	Schedule
1	DIA	<input checked="" type="checkbox"/> LAN	<input checked="" type="checkbox"/> underlay	<input checked="" type="checkbox"/> LAN-net	<input checked="" type="checkbox"/> all	<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Accept	<input checked="" type="checkbox"/> always

Edit SD-WAN Overlay Template – Summary (5/5)

Secondary HUB	↑ dc1_fgt(192.168.0.41)
Branch 1	☰ branches

Underlay Assignment ▾

Standalone HUB Underlays	Underlay 1: port1
	Underlay 2: port2
	Underlay 3: port4
Branch Underlays	Underlay 1: port1
	Underlay 2: port2
	Underlay 3: port4

Network Advertisement ▾

Standalone HUB	Connected Interface 1: port5
Branch	Connected Interface 1: port5

SD-WAN Template Options ▾

Add Overlay Objects to SD-WAN Template	<input checked="" type="checkbox"/>	branches
Add Overlay Interfaces and Zones	<input checked="" type="checkbox"/>	
Add Health Check Servers for Each HUB as Performance SLA	<input checked="" type="checkbox"/>	
Normalize Interfaces	<input checked="" type="checkbox"/>	
Add Health Check Firewall Policy to Hub Policy Package	<input checked="" type="checkbox"/>	dc_pp
Add Health Check Firewall Policy to Branch Policy Package	<input checked="" type="checkbox"/>	branches_pp

Then, you use the SD-WAN overlay template to configure the IPsec overlay tunnels. You create the associated SD-WAN rules to connect existing branches to the company hub device and apply the changes on the branches.

After those changes, users complain that they lost internet access. DIA is no longer working. Based on the exhibit, which statement best describes the possible root cause of this issue?

- A. The SD-WAN overlay template defines a zone for each underlay interface and moves the interfaces into those zones.
- B. The SD-WAN overlay template didn't configure a firewall policy to allow traffic through the overlay.
- C. The SD-WAN overlay template redefines the interface gateway addresses if they are defined with metadata variables.
- D. The SD-WAN overlay template updates the SD-WAN template and the rules.

Answer: A

NEW QUESTION 53

You are planning a new SD-WAN deployment with the following criteria:

- Two regions
- Most of the traffic is expected to remain within its region
- No requirement for inter-region ADVPN

To remain within the recommended best practices, which routing protocol should you select for the overlays?

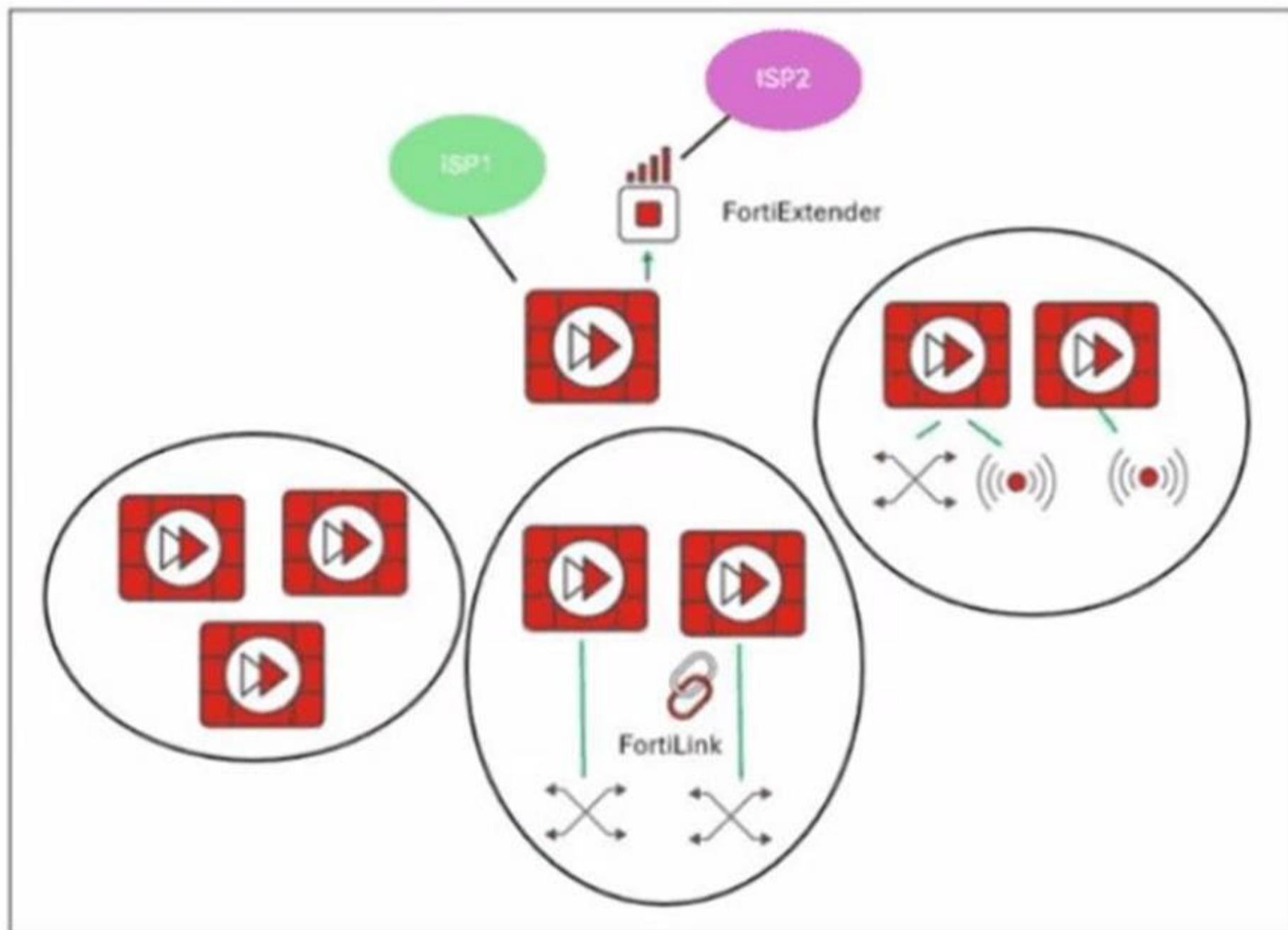
- A. OSPF for the routing within each region and EBGP between the regions.
- B. IBGP with BGP on loopback within each region and EBGP between the regions.
- C. IBGP with BGP per overlays within each region and IBGP with BGP on loopback between the regions.
- D. IBGP within each region and between the regions.

Answer: B

NEW QUESTION 56

Refer to the exhibit.

SD-WAN Network Topology



You want to configure SD-WAN on a network as shown in the exhibit.

The network contains many FortiGate devices. Some are used as NGFW, and some are installed with extensions such as FortiSwitch, FortiAP, or Forti Extender. What should you consider when planning your deployment?

- A. You can build an SD-WAN topology that includes all device
- B. The hubs can be FortiGate devices with Forti Extender.
- C. You can build an SD-WAN topology that includes all device
- D. The hubs must be devices without extensions.
- E. You must use FortiManager to manage your SD-WAN topology.
- F. You must build multiple SD-WAN topologie
- G. Each topology must contain only one type of extension.

Answer: B

NEW QUESTION 57

What are three key routing principles of SD-WAN? (Choose three.)

- A. Directly connected routes have precedence over SD-WAN rules.
- B. Policy routes have precedence over SD-WAN rules.
- C. SD-WAN rules are skipped if the best route to the destination is a static route
- D. SD-WAN rules are skipped if the best route to the destination is not an SD-WAN member.
- E. SD-WAN members are skipped if they do not have a valid route to the destination.

Answer: BDE

NEW QUESTION 62

(As an IT manager, you want to delegate the installation and management of your SD- WAN deployment to a managed security service provider (MSSP). Each site must maintain direct internet access and be secure. You expect significant traffic flow between the sites and want to delegate as much of the network administration and management as possible to the MSSP.

Which two MSSP deployment blueprints address your requirements? Choose two answers.)

- A. Use a shared hub on the MSSP premises and a dedicated hub on the customer premises, and install the spokes on the customer premises.
- B. Install a dedicated hub on the MSSP premises for the customer, and install the spokes on the customer premises.
- C. Install the hub and spokes on the customer premises, and enable the MSSP to manage the SD-WAN deployment using FortiManager with a dedicated ADOM.
- D. Use a shared hub on the MSSP premises with a dedicated VDOM for the customer, and install the spokes on the customer premises.

Answer: BD

NEW QUESTION 67

Refer to the exhibits.

Device blueprint

Edit Device Blueprint - Stores ✕

Name	<input type="text" value="Stores"/>
Device Model	<input style="border-bottom: 1px solid #ccc;" type="text" value="FortiGate-51G"/>
Automatically Link to Real Device	<input checked="" type="checkbox"/>
Enforce Firmware Version	<input type="checkbox"/>
Enforce Device Configuration i	<input checked="" type="checkbox"/>
Add to Device Group	<input type="checkbox"/>
Add to Folder	<input type="checkbox"/>
Fabric Authorization Template	<input type="checkbox"/>
Pre-Run CLI Template	<input checked="" type="checkbox"/> <input style="border-bottom: 1px solid #ccc;" type="text" value="5G-links"/>
Assign Policy Package	<input checked="" type="checkbox"/> <input style="border-bottom: 1px solid #ccc;" type="text" value="default"/>
Provisioning Templates	<div style="border: 1px solid #ccc; padding: 5px; display: flex; flex-direction: column;"> <div style="display: flex; justify-content: space-between; align-items: center;"> corp_st ✕ </div> <div style="display: flex; justify-content: space-between; align-items: center;"> LAN-interface ✕ </div> <div style="text-align: center; margin-top: 5px;">+</div> </div>
HA	<input type="checkbox"/>

CLI script LAN-interface

Edit CLI Template – LAN interface ✕

Name:

Type:

Comments:

0/4096

Script details

Search... ↑ ↓

```

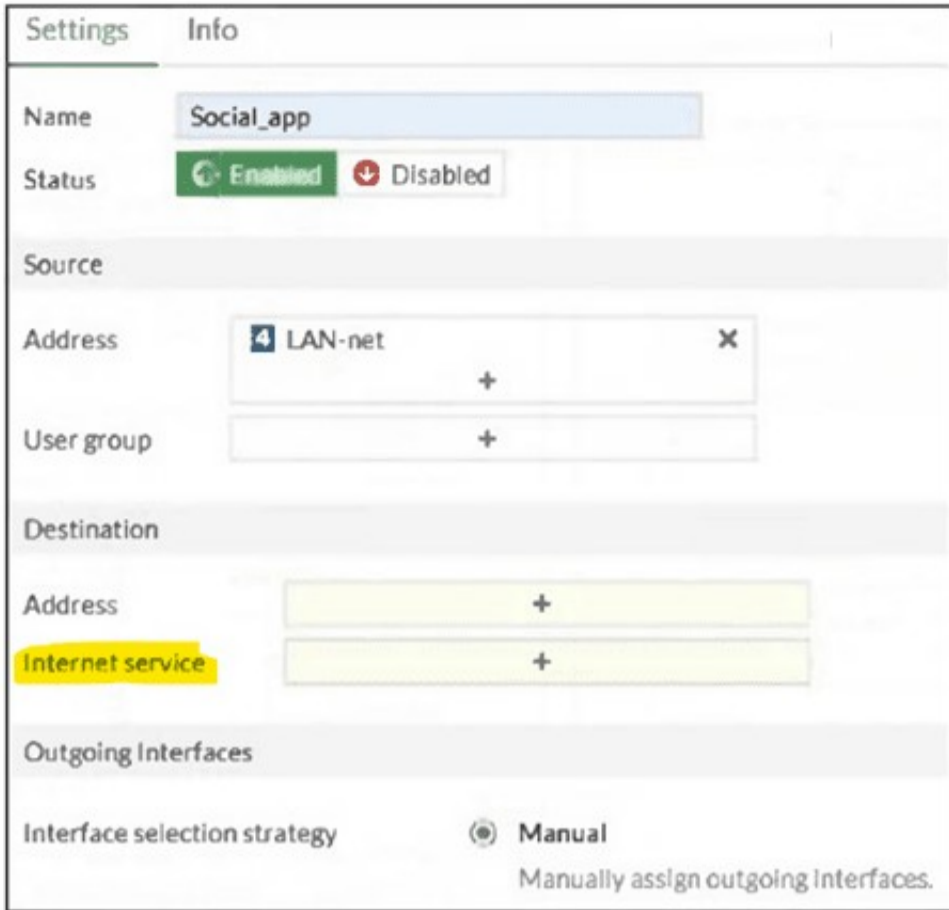
1 config system interface
2     edit port1
3         set mode dhcp
4         set allowances ping https ssh fgfm
5     next
6     edit port2
7         set mode dhcp
8     next
9     edit port5
10        set ip 10.0.$(branch_id).254 255.255.255.0
11        set allowaccess ping
12 end
13 end
                
```

The administrator configured a device blueprint and CLI scripts as shown in the exhibits, to prepare for onboarding FortiGate devices in the company's stores. Later, a technician prepares a FortiGate 51G with a basic configuration and connects it to the network. The basic configuration contains the port1 configuration and the minimal configuration required to allow the device to connect to FortiManager. After the device first connects to FortiManager, FortiManager updates the device configuration. Based on the exhibits, which actions does FortiManager perform?

- A. FortiManager updates the device configuration according to the selected template
- B. It applies the corp_st template first.
- C. FortiManager does not update the port1 configuration because FortiManager does not change the configuration of interfaces with fgfm access.
- D. FortiManager updates access rights only for port1. FortiManager cannot update the IP address because it was already set manually.
- E. FortiManager updates the configuration of port1, port2, and port5. The three ports might get new IP addresses.

Answer: D

NEW QUESTION 70
 (Refer to the exhibit.)



You configure SD-WAN on a standalone FortiGate device. You want to create an SD-WAN rule that steers traffic related to Facebook and LinkedIn through the less costly internet link. What must you do to set Facebook and LinkedIn applications as destinations from the GUI? Choose one answer.)

- A. Enable the visibility of the applications field as destinations of the SD-WAN rule.
- B. In the Internet service field, select Facebook and LinkedIn.
- C. You cannot configure applications as destinations of an SD-WAN rule on a standalone FortiGate device.
- D. Install a license to allow applications as destinations of SD-WAN rules.

Answer: B

NEW QUESTION 73

(You configure the overlay tunnels for an SD-WAN hub-and-spoke topology defined with IPsec tunnels, BGP on loopback, and dynamic BGP. Which are two recommended IPsec settings for this topology? Choose two answers.)

- A. On the spoke, set the parameter net-device to enable.
- B. On the spoke, configure the parameter localid.
- C. On the hub, set the parameter mode-cfg to enable.
- D. On the hub, set the tunnel type to static.

Answer: AB

NEW QUESTION 76

Refer to the exhibits.

SD-WAN zone configuration on FortiManager

ID	Interface	Gateway	Cost	Priority	Status	Installation Target
virtual-wan-link						
underlay						
1						
2	port1	0.0.0.0	0	1	Enable	
HUB1	port2	0.0.0.0	0	1	Enable	
4	HUB1-VPN1	0.0.0.0	0	1	Enable	1 Device in Total branch1_fg[root]
5	HUB1-VPN2	0.0.0.0	0	1	Enable	

Policy package configuration

#	Name	From	To	Source	Destination	Install On
Corp-SOT_BBLK(1/1 Total:1)						
2	DIA	<input type="checkbox"/> LAN	<input type="checkbox"/> underlay	<input checked="" type="checkbox"/> LAN-net	<input type="checkbox"/> all	<input type="radio"/> Installation Targets
3	To Hub-Overlay	<input type="checkbox"/> LAN	<input type="checkbox"/> HUB1-VPN1	<input type="checkbox"/> all	<input type="checkbox"/> all	<input type="radio"/> Installation Targets
Implicit(4/4 Total:1)						
4	Implicit Deny	any	any	<input type="checkbox"/> all <input checked="" type="checkbox"/> all	<input type="checkbox"/> all <input checked="" type="checkbox"/> all	

The exhibits show the SD-WAN zone configuration of an SD-WAN template prepared on FortiManager and the policy package configuration. When the administrator tries to install the configuration changes, FortiManager fails to commit. What should the administrator do to fix the issue?

- A. Configure branch1_fgt as the installation target for policy 3.
- B. Configure HUB1 as the destination of policy 3.
- C. Configure a normalized interface for the IPsec tunnel HUB1-VPN1.
- D. Configure both HUB1-VPN1 and HUB1-VPN2 as the destination of policy 3

Answer: B

NEW QUESTION 77

Refer to the exhibit.

```
ike V=root:0:VPN1_0:9: received informational request
ike V=root:0:VPN1_0:9: processing notify type SHORTCUT_QUERY
ike V=root:0:VPN1_0: recv shortcut-query 5752810260829471092 6d5cdb5ceab1874d
/000000000000000000 192.2.0.1 10.0.1.101:2048->10.0.3.101:0 0 psk 64 ppk 0 ttl
32 nat 0 ver 2 mode 0 network-id 1
ike V=root:0:VPN1: iif 20 10.0.1.101->10.0.3.101 0 route lookup oif 20 VPN1
gwy 192.168.1.4
ike V=root:0: shared dev tunnel lookup, tun-id=192.168.1.4
ike V=root:0:VPN1_3: forward shortcut-query 5752810260829471092 6d5cdb5ceab18
74d/000000000000000000 192.2.0.1 10.0.1.101->10.0.3.101 0 psk 64 ppk 0 ttl 31
ver 2 mode 0, ext-mapping 192.2.0.1:0, network-id 1
```

Which statement best describe the role of the ADVPN device in handling traffic?

- A. This is a hub that has received a query from a spoke and has forwarded it to another spoke.
- B. This is a hub in a dual-region topolog
- C. The remote hub tunnel ID is 10.0.2.101.
- D. This is a spoke that has received a shortcut query from another spoke and has forwarded the response to its hub.
- E. This is a spok
- F. The kernel received a shortcut request and forwards the query to another spoke.

Answer: C

NEW QUESTION 81

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