

Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 1

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 2

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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)

[Show Suggested Answer](#)





Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 3

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 4

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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_
S      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
S      10.201.1.254/32 [15/0] via T_INET_0_0 tunnel 100.64.1.1
S      10.202.1.254/32 [15/0] via T_INET_1_0 tunnel 100.64.1.9
S      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.

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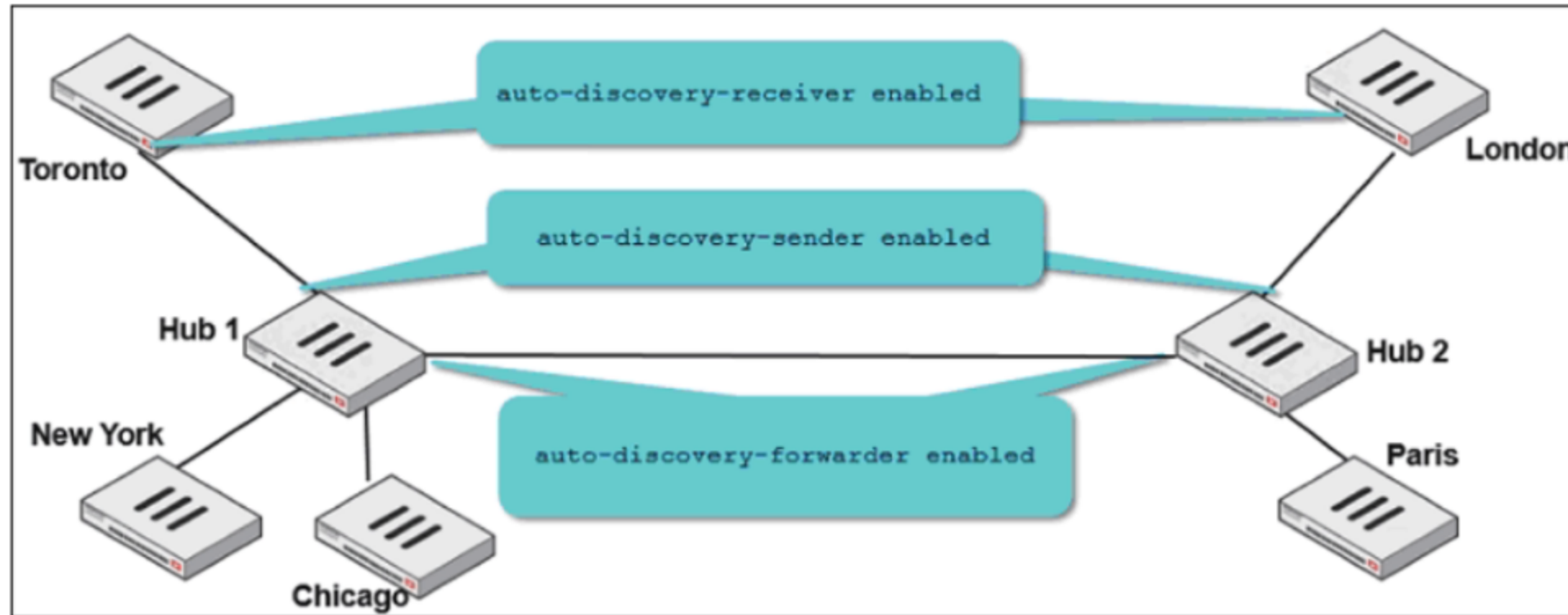
Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 5

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 6

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 7

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 8

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

```
config vpn ipsec phase1-interface
  edit "T_INET_0_0"
    set type dynamic
    set interface "port1"
    set keylife 28800
    set peertype any
    set net-device disable
    set proposal aes128-sha256
    set add-route enable
    set psksecret ENC
Zv9n4Urfk0W4jj8vWI+KywxBG4ZDT7jWHKd8YaL8j4+pRpYOx/N7mSgc7VL0BW2ZHQUXWJ6zvFxNKktiPYntA8aP
i6ly7gDx2lP/OfKexTQQJzgCGRYzLM8eFTOnK7K6AuX0bFDCpBBhEIdf+03CYBMLwkFZmdU6RsT+qvybblVX+Ioy
HK5EXakpmz5RiltELgZ9Gg==
  next
end
```

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

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 9

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 10

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A -

#	Name	Type	Normalized Interface	Addressing Mode	IP/Netmask	Access
▼ Physical (10)						
1	port1	Physical	port1	Manual	203.0.113.1/255.255.255.2	PING
2	port2	Physical	port2	Manual	203.0.113.9/255.255.255.2	PING
3	port3	Physical	port3	Manual	0.0.0.0/0.0.0.0	
4	port4	Physical	port4	Manual	172.16.0.9/255.255.255.24	PING
5	port5	Physical	port5	Manual	10.0.2.254/255.255.255.0	PING
6	port6	Physical	port6	Manual	0.0.0.0/0.0.0.0	
7	port7	Physical	port7	Manual	0.0.0.0/0.0.0.0	
8	port8	Physical	port8	Manual	0.0.0.0/0.0.0.0	
9	port9	Physical	port9	Manual	0.0.0.0/0.0.0.0	
10	port10	Physical	port10	Manual	192.168.0.32/255.255.255.	HTTPS, PING, SSH, HT
▼ Aggregate (1)						
11	fortilink	Aggregate		Manual	169.254.1.1/255.255.255.0	PING, Security Fabric C
▼ Tunnel (3)						
12	naf.root	Tunnel		Manual	0.0.0.0/0.0.0.0	
13	l2t.root	Tunnel		Manual	0.0.0.0/0.0.0.0	
14	ssl.root (SSL VPN interf	Tunnel		Manual	0.0.0.0/0.0.0.0	
▼ EMAC VLAN (1)						
15	vi_lan_ts	EMAC VLAN		Manual	10.0.102.1/255.255.255.0	PING
▼ SD-WAN Zone (2)						
16	virtual-wan-link	SD-WAN Zone				
17	SASE	SD-WAN Zone	SASE			

#	ID	Destination	Gateway	Interface	Distance	Priority	Status	Description
▼ Static Route (2)								
1	1	0.0.0.0/0.0.0.0	203.0.113.2	port1	10	0	Enable	
2	2	0.0.0.0/0.0.0.0	203.0.113.10	port2	10	0	Enable	

Exhibit B -

#	Name	From	To	Source	Destination	Schedule	Service
1	Internet_Access	port5	port1	all	all	always	ALL
▼ Implicit (2-2 / Total: 1)							
2	Implicit Deny	any	any	all	all	always	ALL

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 11

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 12

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

```
branch1_fgt # diagnose sys sdwan service 1

Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
Gen(6), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(manual)
Members(2):
  1: Seq_num(3 T_INET_0_0), alive, selected
  2: Seq_num(4 T_INET_1_0), alive, selected
Src address(1):
  10.0.1.0-10.0.1.255

Dst address(1):
  10.0.0.0-10.255.255.255

branch1_fgt # diagnose sys sdwan member | grep T_INET_
Member(3): interface: T_INET_0_0, flags=0x4 , gateway: 100.64.1.1, priority: 10 1024,
weight: 0
Member(4): interface: T_INET_1_0, flags=0x4 , gateway: 100.64.1.9, priority: 0 1024,
weight: 0

branch1_fgt # get router info routing-table all | grep T_INET_
S      10.0.0.0/8 [1/0] via T_INET_1_0 tunnel 100.64.1.9
```

An administrator is troubleshooting SD-WAN on FortiGate. A device behind branch1_fgt generates traffic to the 10.0.0.0/8 network. The administrator expects the traffic to match SD-WAN rule ID 1 and be routed over T_INET_0_0. However, the traffic is routed over T_INET_1_0.

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

- A. The traffic matches a regular policy route configured with T_INET_1_0 as the outgoing device.
- B. T_INET_1_0 has a lower route priority value (higher priority) than T_INET_0_0.
- C. T_INET_0_0 does not have a valid route to the destination.
- D. T_INET_1_0 has a higher member configuration priority than T_INET_0_0.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 13

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

```
config system settings
    set firewall-session-dirty check-new
end
```

Based on the exhibit, which two actions does FortiGate perform on sessions after a firewall policy change? (Choose two.)

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 14

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 15

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the 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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 16

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 17

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A -

Edit Performance SLA

Name Level3_DNS

IP Version IPv4 IPv6

Probe Mode Active Passive Prefer Passive

Protocol Ping TCP ECHO UDP ECHO HTTP TW

Server

Participants
All SD-WAN Members Specify

port1
port2
2 Entries

Enable Probe Packets

SLA Targets ?
+ Add Target

Link Status

Interval Milliseconds

Failure Before Inactive (max 3600)

Restore Link After (max 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
S* 0.0.0.0/0 [1/0] via 192.2.0.2, port1
      [1/0] via 192.2.0.10, port2
S 8.8.8.8/32 [10/0] via 192.2.0.11, port2
C 10.0.1.0/24 is directly connected, port5
S 172.16.0.0/16 [10/0] via 172.16.0.2, port4
C 172.16.0.0/29 is directly connected, port4
C 192.2.0.0/29 is directly connected, port1
C 192.2.0.8/29 is directly connected, port2
C 192.168.0.0/24 is directly connected, port10

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

Exhibit A shows the SD-WAN performance SLA and exhibit B shows the SD-WAN member status, the routing table, and the performance SLA status.

If port2 is detected dead by FortiGate, what is the expected behavior?

- A. Port2 becomes alive after three successful probes are detected.
- B. FortiGate removes all static routes for port2.
- C. The administrator manually restores the static routes for port2, if port2 becomes alive.
- D. Host 8.8.8.8 is reachable through port1 and port2.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 18

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

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

The device exchanges routes using IBGP.

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

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

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 19

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 20

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 21

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

```

dcl_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
    seqno=1 esn=0 replaywin_lastseq=00000000 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

```

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

- A. FortiGate does not install IPsec static routes for remote protected networks in the routing 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.

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Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 22

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A -

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

Exhibit B -

```
branch1_fgt # get router info routing-table all
Codes: K - kernel, C - connected, S - static, R - RIP, B - BGP
       O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default

Routing table for VRF=0
S*    0.0.0.0/0 [1/0] via 192.2.0.2, port2, [1/0]
           [1/0] via 192.2.0.10, port1 [10/0]
...
```

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.

Show Suggested Answer

Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 23

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

Show Suggested Answer

Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 24

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A -

[-] Network Properties	
[-] Service	Critical-DIA
[-] Identity	
[-] Device ID	FGVM01TM22000077
[-] Device Name	branch1_fgt
[-] Type	
[-] Sub Type	sdwan
[-] Type	event
[-] Alerts	
[-] Level	notice
[-] General	
[-] Log Description	SDWAN status
[-] Log ID	0113022923
[-] Message	Service prioritized by performance metric will be redirected in sequence order.
[-] Sequence Number	2,1
[-] Virtual Domain	root
[-] Others	
[-] Date/Time	23:57:29
[-] Destination End User ID	3
[-] Destination Endpoint ID	3
[-] Device Time	2022-03-04 14:57:27
[-] Event Time	1646434647595788893
[-] Event Type	Service
[-] Metric	latency
[-] Service ID	1
[-] Time Stamp	2022-03-04 23:57:29
[-] Time Zone	-0800
[-] UEBA Endpoint ID	3
[-] UEBA User ID	3
[-] logver	700030237

Exhibit B -

```
branch1_fgt # diagnose sys sdwan member
Member(1): interface: port1, flags=0x0 , gateway: 192.2.0.2, priority: 0 1024, weight: 0
Member(2): interface: port2, flags=0x0 , gateway: 192.2.0.10, priority: 0 1024, weight: 0

config service
edit 1
set name "Critical-DIA"
set mode priority
set src "LAN-net"
set internet-service enable
set internet-service-app-ctrl 16354 41468 16920
set health-check "Level3_DNS"
set priority-members 1 2
next
end
```

Exhibit A shows an SD-WAN event log and exhibit B shows the member status and the SD-WAN rule configuration.

Based on the exhibits, which two statements are correct? (Choose two.)

- A. FortiGate updated the outgoing interface list on the rule so it prefers port2.
- B. Port2 has the highest member priority.
- C. Port2 has a lower latency than port1.
- D. SD-WAN rule ID 1 is set to lowest cost (SLA) mode.

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 25

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

Show Suggested Answer





Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 26

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

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

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 27

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A -

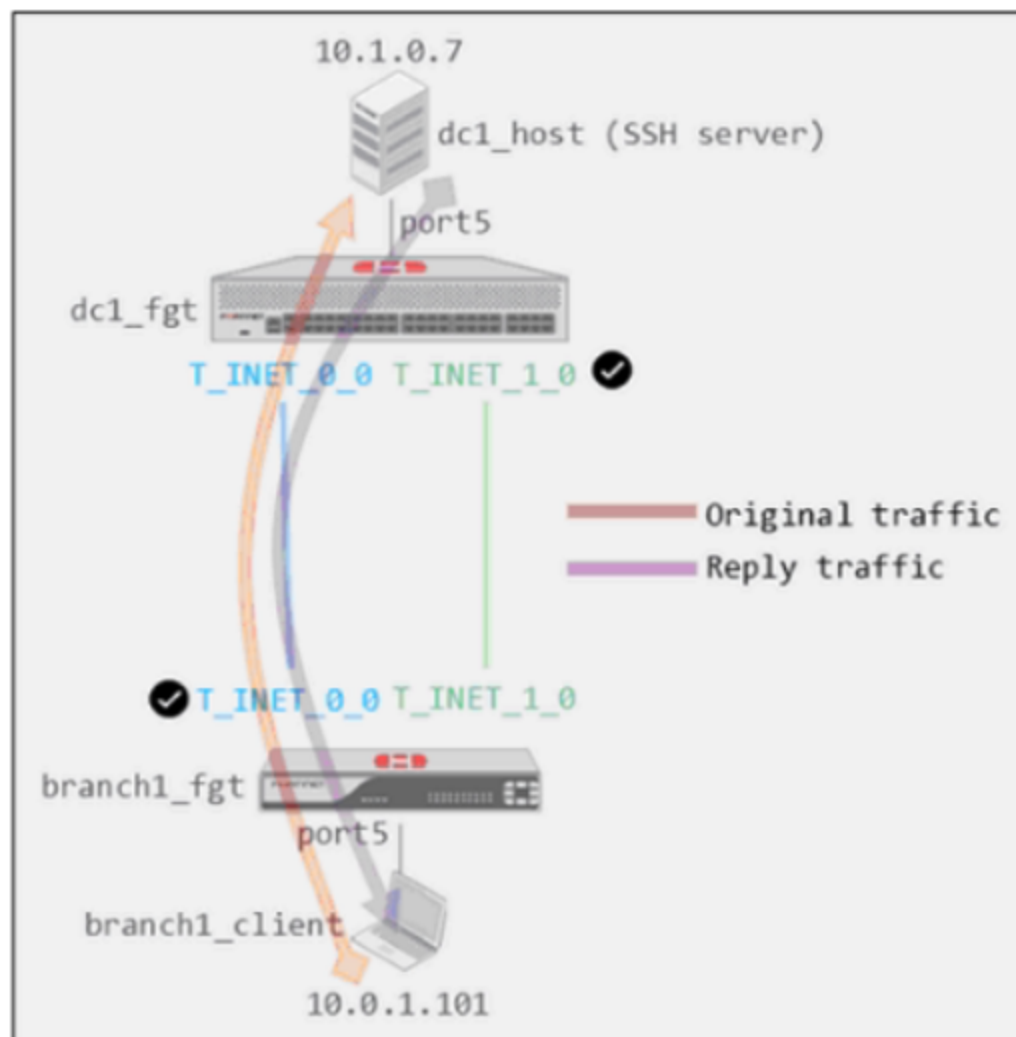


Exhibit B -

```

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 tcp-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.

Show Suggested Answer





Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 28

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 29

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

```
config vpn ipsec phase1-interface
  edit "T_INET_0_0"
    set interface "port1"
    set ike-version 2
    set keylife 28800
    set peertype any
    set net-device disable
    set proposal aes128-sha256 aes256-sha256 aes128gcm-prfsha256 aes256gcm-prfsha384
chacha20poly1305-prfsha256
    set comments "[created by FMG VPN Manager]"
    set idle-timeout enable
    set idle-timeoutinterval 5
    set auto-discovery-receiver enable
    set remote-gw 100.64.1.1
    set psksecret ENC
6D5rVsaK1MeAyVYt1z95BS24Psew761wY023hnFVviwb6deItSc51tCa+iNYhujT8gycfD4+WuszpmuIv8rRzrVh
7DFkHaW2auAAprQ0dHUfaCzjOhME7mPw+8he2xB7Edb9ku/nZEHb0cKLkKYJc/p9J9IMweV21ZUgFjvIpXNxHxpH
LReOFShoH01SPFKz5IYCVA==
  next
end
```

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

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

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 30

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

Show Suggested Answer





Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 31

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

[Show Suggested Answer](#)



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 32

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

```
branch1_fgt # diagnose sys sdwan service 3

Service(3): Address Mode(IPV4) flags=0x200 use-shortcut-sla
  Gen(5), TOS(0x0/0x0), Protocol(0: 1->65535), Mode(priority), link-cost-
factor(latency), link-cost-threshold(10), heath-check(VPN_PING)
  Members(3):
    1: Seq_num(3 T_INET_0_0), alive, latency: 101.349, selected
    2: Seq_num(4 T_INET_1_0), alive, latency: 151.278, selected
    3: Seq_num(5 T_MPLS_0), alive, latency: 200.984, selected
  Src address(1):
    10.0.1.0-10.0.1.255

  Dst address(1):
    10.0.0.0-10.255.255.255

branch1_fgt (3) # show
config service
  edit 3
    set name "Corp"
    set mode priority
    set dst "Corp-net"
    set src "LAN-net"
    set health-check "VPN_PING"
    set priority-members 3 4 5
  next
end
```

The exhibit shows the SD-WAN rule status and configuration.

Based on the exhibit, which change in the measured latency will make T_MPLS_0 the new preferred member?

- A. When T_INET_0_0 and T_MPLS_0 have the same latency.
- B. When T_MPLS_0 has a latency of 100 ms.
- C. When T_INET_0_0 has a latency of 250 ms.
- D. When T_N1PLS_0 has a latency of 80 ms.

Show Suggested Answer

Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 33

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A -

Edit Traffic Shaping Policy

IP Version: IPv4 IPv6

Name:

Status: Enable Disable

Comments:
0/255

If Traffic Matches:

Source Internet Service:

Source Address:

Source User:

Source User Group:

Destination Internet Service:

Destination Address:

Schedule:

Service:

Application:

Application Category:

Application Group:

URL Category:

Type Of Service:

Type Of Service Mask:

Then:

Action: Apply Shaper Assign Group

Outgoing Interface:

Shared Shaper:

Reverse Shaper:

Per-IP Shaper:

Differentiated Services:

Differentiated Services Reverse:

Exhibit B -

Edit Firewall Policy

ID: 1

Name:

ZTNA: Disable Full ZTNA IP/MAC filtering

Incoming Interface:

Outgoing Interface:

Source Internet Service:

IPv4 Source Address:

IPv6 Source Address:

Source User:

Source User Group:

FSSO Groups:

Destination Internet Service:

IPv4 Destination Address:

IPv6 Destination Address:

Service:

Schedule:

Action: Deny Accept IPSEC

Inspection Mode: Flow-based Proxy-based

Firewall/Network Options

NAT:

NAT NAT46 NAT64

IP Pool Configuration: Use Outgoing Interface Address Use Dynamic IP Pool

Preserve Source Port:

Protocol Options:

Disclaimer Options

Display Disclaimer:

Security Profiles

SSL/SSH Inspection:

Decrypted Traffic Mirror:

Traffic Shaping Options

Shared Shaper:

Reverse Shaper:

Per-IP Shaper:

Logging Options

Log Allowed Traffic: No Log Log Security Events Log All Sessions

Capture Packets

Generate Logs when Session Starts

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.

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 34

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 35

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

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

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

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

id=2131165186(0x7f070002) vwl_service=2(Non-Critical-DIA) vwl_mbr_seq=2 dscp_tag=0xff
0xff flags=0x0 tos=0x00 tos_mask=0x00 protocol=0 sport=0-65535 iif=0 dport=1-65535
path(1) oif=4(port2)
source(1): 10.0.1.0-10.0.1.255
destination wildcard(1): 0.0.0.0/0.0.0.0
internet service(2): Facebook(4294836806,0,0,0, 15832) Twitter(4294838278,0,0,0, 16001)
hit_count=0 last_used=2022-03-24 12:18:16

id=2131165187(0x7f070003) vwl_service=3(all_rules) vwl_mbr_seq=1 dscp_tag=0xff 0xff
flags=0x0 tos=0x00 tos_mask=0x00 protocol=0 sport=0-65535 iif=0 dport=1-65535 path(1)
oif=3(port1)
source(1): 0.0.0.0-255.255.255.255
destination(1): 0.0.0.0-255.255.255.255
hit count=0 last used=2022-03-25 10:58:12
```

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

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

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 36

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

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

Show Suggested Answer





Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 37

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

Show Suggested Answer





Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 38

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 39

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibits.

Exhibit A

```
config duplication
  edit 1
    set srcaddr "10.0.1.0/24"
    set dstaddr "10.1.0.0/24"
    set srcintf "port5"
    set dstintf "overlay"
    set service "ALL"
    set packet-duplication force
  next
end
```

```
branch1_fgt # diagnose sys sdwan zone
Zone SASE index=2
  members(0):
Zone overlay index=4
  members(3): 19(T_INET_0_0) 20(T_INET_1_0) 21(T_MPLS_0)
Zone underlay index=3
  members(2): 3(port1) 4(port2)
Zone virtual-wan-link index=1
  members(0):
```

```
1.274665 port5 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275788 T_INET_0_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275790 T_INET_1_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.275801 T_MPLS_0 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
1.278365 T_INET_1_0 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
1.278553 port5 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit B

```
3.874431 T_INET_1_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.874630 port5 out 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.874895 T_INET_0_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.875125 T_MPLS_0 in 10.0.1.101 -> 10.1.0.7: icmp: echo request
3.875054 port5 in 10.1.0.7 -> 10.0.1.101: icmp: echo reply
3.875308 T_INET_1_0 out 10.1.0.7 -> 10.0.1.101: icmp: echo reply
```

Exhibit A shows the packet duplication rule configuration, the SD-WAN zone status output, and the sniffer output on FortiGate acting as the sender. Exhibit B shows the sniffer output on a FortiGate acting as the receiver.

The administrator configured packet duplication on both FortiGate devices. The sniffer output on the sender FortiGate shows that FortiGate forwards an ICMP echo request packet over three overlays, but it only receives one reply packet through T_INET_1_0.

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

- A. On the receiver FortiGate, packet-de-duplication is enabled.
- B. The ICMP echo request packets sent over T_INET_0_0 and T_MPLS_0 were dropped along the way.
- C. The ICMP echo request packets received over T_INET_0_0 and T_MPLS_0 were offloaded to NPU.
- D. On the sender FortiGate, duplication-max-num is set to 3.

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 40

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

Refer to the exhibit.

Create New SD-WAN Interface Member

Sequence Number	<input type="text" value="1"/>
Interface Member	<input type="text"/>
SD-WAN Zone	<input type="text" value="virtual-wan-link"/>
Gateway IP	<input type="text" value="0.0.0.0"/>
Cost	<input type="text" value="0"/>
Status	<input checked="" type="checkbox"/>
Priority	<input type="text" value="0"/>
Advanced Options >	

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

Show Suggested Answer



Actual exam question from Fortinet's NSE7_SDW-7.0

Question #: 41

Topic #: 1

[\[All NSE7_SDW-7.0 Questions\]](#)

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.

[Show Suggested Answer](#)

