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Fortinet NSE 7 - Enterprise Firewall 7.0

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QUESTION 1

Which two configuration settings change the behavior for content-inspected traffic while FortiGate is in conserve mode? (Choose two.)

A. IPS failopen

B. mem failopen

C. AV failopen D. UTM failopen

Correct Answer: AC

QUESTION 2

View the exhibit, which contains the output of a diagnose command, and then answer the question below.

```
     diagnose sys session list expectation

session info: proto=6 proto_state-00 duration=3 expire=26 timeout=3600 flags=00000000
sockflag=00000000 sockport=0 av_idx=0 use=3
origin-shaper=
reply-shaper=
ha_id-0 policy_dir=1 tunnel=/
state=new complex
statistic(bytes/packets/allow_err): org=0/0/0 reply-0/0/0 tuples=2
orgin->sink: org pre->post, reply pre->post dev=2->4/4->2 gwy=10.0.1.10/10.200.1.254
hook=pre dir-org act=dnat 10.171.121.38:0->10.200.1.1:60426(10.0.1.10:50365)
hook-pre dir-org act-noop 0.0.0.0:0->0.0.0.0:0(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=000000e9 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

What statements are correct regarding the output? (Choose two.)

A. This is an expected session created by a session helper.

B. Traffic in the original direction (coming from the IP address 10.171.122.38) will be routed to the next-hop IP address 10.0.1.10.

C. Traffic in the original direction (coming from the IP address 10.171.122.38) will be routed to the next-hop IP address 10.200.1.1.

D. This is an expected session created by an application control profile.

Correct Answer: AC

QUESTION 3

View the exhibit, which contains the partial output of an IKE real-time debug, and then answer the question below.

```
ike 0:c49e59846861b0f6/0000000000000000:278: responder: main mode get 1st message…
ike 0:c49e59846861b0f6/0000000000000000:278: incoming proposal:
ike 0:c49e59846861b0f6/0000000000000000:278: proposal id = 0:
ike 0:c49e59846861b0f6/0000000000000000:278:   protocol id = ISAKMP:
ike 0:c49e59846861b0f6/0000000000000000:278:     trans_id = KEY_IKE.
ike 0:c49e59846861b0f6/0000000000000000:278:     encapsulation = IKE/none
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_ENCRYPT_ALG, val=3DES_CBC.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:c49e59846861b0f6/0000000000000000:278:       type=OAKLEY_GROUP, val=MODP2048.
ike 0:c49e59846861b0f6/0000000000000000:278: ISAKMP SA lifetime=86400
...
ike 0:c49e59846861b0f6/0000000000000000:278: my proposal, gw VPN:
ike 0:c49e59846861b0f6/0000000000000000:278: proposal id = 1:
ike 0:c49e59846861b0f6/0000000000000000:278:   protocol id = ISAKMP:
ike 0:c49e59846861b0f6/0000000000000000:278:       trans_id = KEY_IKE.
ike 0:c49e59846861b0f6/0000000000000000:278:       encapsulation = IKE/none
ike 0:c49e59846861b0f6/0000000000000000:278:         type=OAKLEY_ENCRYPT_ALG, val=AES_CBC,
key-len=256
ike 0:c49e59846861b0f6/0000000000000000:278:         type=OAKLEY_HASH_ALG, val=SHA2_256.
ike 0:c49e59846861b0f6/0000000000000000:278:         type=AUTH_METHOD, val=PRESHARED_KEY.
ike 0:c49e59846861b0f6/0000000000000000:278:         type=OAKLEY_GROUP, val=MODP2048.
ike 0:c49e59846861b0f6/0000000000000000:278: ISAKMP SA lifetime=86400
...
ike 0:c49e59846861b0f6/0000000000000000:278: negotiation failure
ike Negotiate ISAKMP SA Error: ike 0:c49e59846861b0f6/0000000000000000:278:
proposal chosen
...
```

Why didn\\'t the tunnel come up?

A. The pre-shared keys do not match.

B. The remote gateway\\'s phase 2 configuration does not match the local gateway\\'s phase 2 configuration.

C. The remote gateway\\'s phase 1 configuration does not match the local gateway\\'s phase 1 configuration.

D. The remote gateway is using aggressive mode and the local gateway is configured to use man mode.

Correct Answer: C

QUESTION 4

Refer to the exhibit, which contains the partial output of a diagnose command.

```
Spoke-2 # dia vpn tunnel list
list all ipsec tunnel in vd 0
------------------------------------------------------------------------------------------------------
name=VPN ver=1 serial=1 10.200.5.1:0->10.200.4.1:0
bound_if=3 lgwy=static/1 tun=intf/0 mode=auto/1 encap=none/0
proxyid_num=1 child_num=0 refcnt=15 ilast=10 olast=792 auto-discovery=0
stat: rxp=0 txp=0 rxb=0 txb=0
dpd: mode=on-demand on=1 idle=20000ms retry=3 count=0 seqno=0
natt: mode=none draft=0 interval=0 remote_port=0
proxyid=VPN proto=0 sa=1 ref=2 serial=1
     src: 0:10.1.2.0/255.255.255.0:0
     dst: 0:10.1.1.0/255.255.255.0:0
     SA: ref=3 options=2e type=00 soft=0 mtu=1438 expire=42403/0B replaywin=2048 seqno=1 esn=0
replaywin_lastseq=00000000
     life: type=01 bytes=0/0 timeout=43177/43200
     dec: spi=ccc1f66d esp=aes key=16 280e5cd6f9bacc65ac771556c464ffbd
            ah=sha1 key=20 c68091d68753578785de6a7a6b276b506c527efe
     enc: spi=df14200b esp=aes key=16 b02a7e9f5542b69aff6aa391738ee393
           ah=sha1 key=20 889f7529887c215c25950be2ba83e6fe1a5367be
     dec: pkts/bytes=0/0, enc:pkts/bytes=0/0
```

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

A. Anti-replay is enabled

B. The remote gateway IP is 10.200.4.1.

C. DPD is disabled.

D. Quick mode selectors are disabled.

Correct Answer: AB

QUESTION 5

Which statement is true regarding File description (FD) conserve mode?

A. IPS inspection is affected when FortiGate enters FD conserve mode.

B. A FortiGate enters FD conserve mode when the amount of available description is less than 5%.

C. FD conserve mode affects all daemons running on the device.

D. Restarting the WAD process is required to leave FD conserve mode.

Correct Answer: B

QUESTION 6

What configuration changes can reduce the memory utilization in a FortiGate? (Choose two.)

A. Reduce the session time to live.

B. Increase the TCP session timers.

C. Increase the FortiGuard cache time to live.

D. Reduce the maximum file size to inspect.

Correct Answer: AD

QUESTION 7

View the exhibit, which contains the output of a debug command, and then answer the question below.

```
# get router info ospf interface port4
port4 is up, line protocol is up
   Internet Address 172.20.121.236/24, Area 0.0.0.0, MTU 1500
   Process ID 0, Router ID 0.0.0.4, Network Type BROADCAST, Cost: 1
   Transmit Delay is 1 sec, State DROther, Priority 1
   Designated Router (ID) 172.20.140.2, Interface Address 172.20.121.2
Backup Designated Router (ID) 0.0.0.1, Interface Address 172.20.121.239
Timer intervals configured, Hello 10.000, Dead 40, Wait 40, Retransmit 5
     Hello due in 00:00:05
   Neighbor Count is 4, Adjacent neighbor count is 2
   Crypt Sequence Number is 411
   Hello received 106, sent 27, DD received 7 sent 9
   LS-Req received 2 sent 2, LS-Upd received 7 sent 5
   LS-Ack received 4 sent 3, Discarded 1
```

Which of the following statements about the exhibit are true? (Choose two.)

A. In the network on port4, two OSPF routers are down.

B. Port4 is connected to the OSPF backbone area.

C. The local FortiGate\\'s OSPF router ID is 0.0.0.4

D. The local FortiGate has been elected as the OSPF backup designated router.

Correct Answer: BC

QUESTION 8

Which two statements about the Security Fabric are true? (Choose two.)

A. Only the root FortiGate collects network topology information and forwards it to FortiAnalyzer.

B. Only the root FortiGate sends logs to FortiAnalyzer.

C. Only FortiGate devices with fabric-object-unification set to default will receive and synchronize global CMDB objects sent by the root FortiGate.

D. FortiGate uses FortiTelemetry protocol to communicate with FortiAnalyzer.

Correct Answer: AC

Explanation: FortiGate\\'s to Root uses FortiTelemetry (TCP-8013) FortiTelemetry is also used for FortiClient communication Root Fortigate to FortiAnalyzer uses API (TCP-443)

QUESTION 9

How are bulk configuration changes made using FortiManager CLI scripts? (Choose two.)

A. When run on the All FortiGate in ADOM, changes are automatically installed without the creation of a new revision history.

B. When run on the Device Database, changes are applied directly to the managed FortiGate device.

C. When run on the Remote FortiGate directly, administrators do not have the option to review the changes prior to installation.

D. When run on the Policy Package, ADOM database, you must use the installation wizard to apply the changes to the managed FortiGate device

Correct Answer: CD

CLI scripts can be run in three different ways:Device Database: By default, a script is executed on the device database. It is recommend you run the changes on the device database (default setting), as this allows you to check what

configuration changes you will send to the managed device. Once scripts are run on the device database, you can install these changes to a managed device using the installation wizard.

Policy Package, ADOM database: If a script contains changes related to ADOM level objects andpolicies, you can change the default selection to run on Policy Package, ADOM database and can then be installed using the installation wizard.

Remote FortiGate directly (through CLI): A script can be executed directly on the device and you don\\'t need to install these changes using the installation wizard. As the changes are directly installed on the managed device, no option is

provided to verify and check the configuration changes through FortiManager prior to executing it.

QUESTION 10

View these partial outputs from two routing debug commands:

```
# get router info kernel
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.1.254
dev=2(port1)
tab=254 vf=0 scope=0 type=1 proto=11 prio=0 0.0.0.0/0.0.0.0/0->0.0.0.0/0 pref=0.0.0.0 gwy=10.200.2.254
dev=3(port2)
tab=254 vf=0 scope=253 type=1 proto=2 prio=0 0.0.0.0/0.0.0.0/0->10.0.1.0/24 pref=10.0.1.254 gwy=0.0.0.0
dev=4(port3)
# get router info routing-table all
S*      0.0.0.0/0 [10/0] via 10.200.1.254, port1
                  [10/0] via 10.200.2.254, port2, [10/0]
C       10.0.1.0/24 is directly connected, port3
C       10.200.1.0/24 is directly connected, port1
C       10.200.2.0/24 is directly connected, port2
```

Which outbound interface will FortiGate use to route web traffic from internal users to the Internet?

A. Both port1 and port2

B. port3

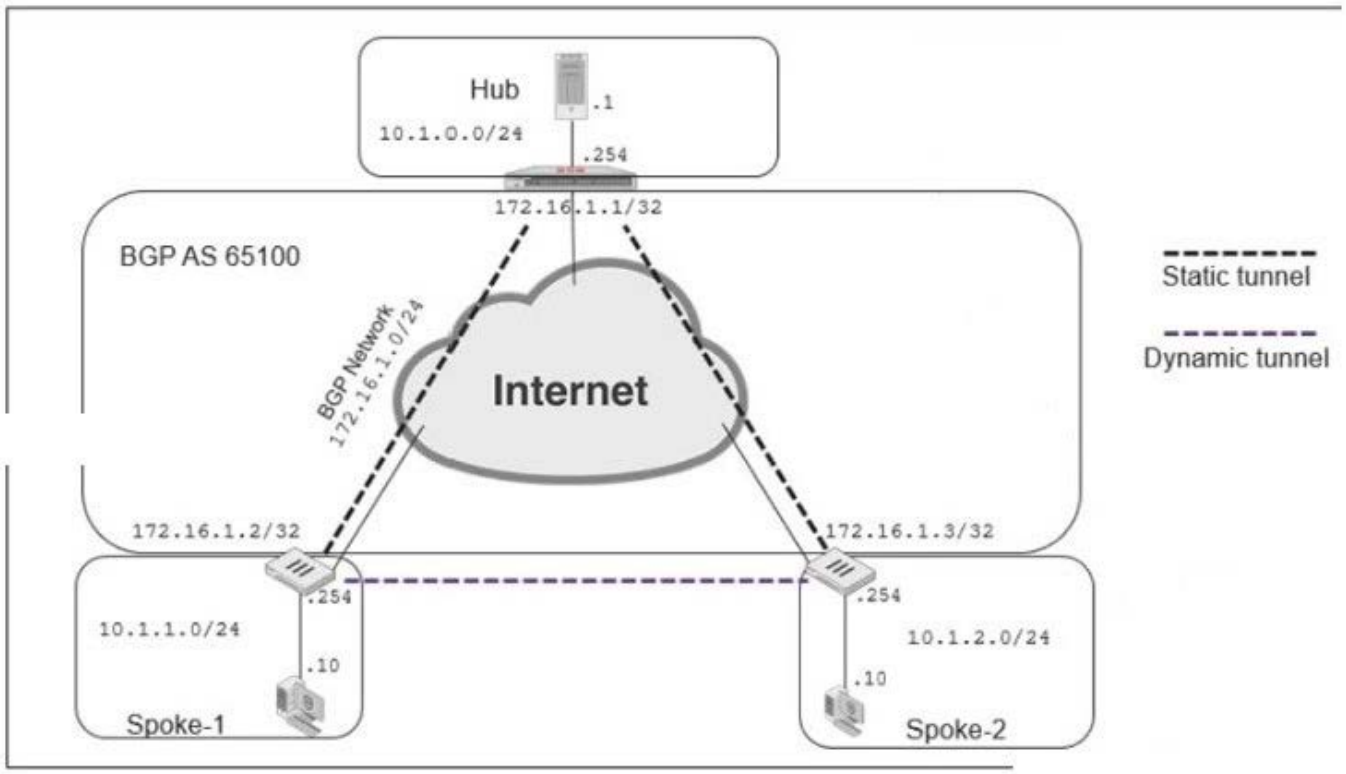
C. port1

D. port2

Correct Answer: C

QUESTION 11

Exhibits:




```
how router bgp
router bgp
 as 65100
 router-id 172.16.1.1
fig neighbor-group
 edit "advpn"
     set remote-as 65100

     set route-reflector-client disable
 next

fig neighbor-range
 edit 1
     set prefix 172.16.1.0 255.255.255.0
     set neighbor-group "advpn"
 next
```

Refer to the exhibits, which contain the network topology and BGP configuration for a hub.

An administrator is trying to configure ADVPN with a hub-spoke VPN setup using iBGP. All the VPNs are up and connected to the hub. The hub is receiving route information from both spokes over iBGP; however, the spokes are not receiving

route information from each other.

What change must the administrator make to the hub BGP configuration so that the routes learned by one spoke are forwarded to the other spokes?

A. Configure an individual neighbor and remove neighbor-range configuration.

B. Configure the hub as a route reflector client.

C. Change the router id to 10.1.0.254.

D. Make the configuration of remote-as different from the configuration of local-as.

Correct Answer: B

Explanation: Source: https://community.fortinet.com/t5/FortiGate/Technical-Tip- Configuring-BGP-route-reflector/ta-p/191503 Source 2: RFC 4456

QUESTION 12

A FortiGate is configured as an explicit web proxy. Clients using this web proxy are reposting DNS errors when accessing any website. The administrator executes the following debug commands and observes that the n-dns-timeout counter is increasing:

```
#diagnose test application wad 2200
#diagnose test application wad 104
DNS Stats:
n_dns_reqs=878  n_dns_fails= 2  n_dns_timeout=875
n_dns_success=0

n_snd_retries=0  n_snd_fails=0 n_snd_success=0 n_dns_overflow=0
n_build_fails=0
```

What should the administrator check to fix the problem?

A. The connectivity between the FortiGate unit and the DNS server.

B. The connectivity between the client workstations and the DNS server.

C. That DNS traffic from client workstations is allowed by the explicit web proxy policies.

D. That DNS service is enabled in the explicit web proxy interface.

Correct Answer: A

QUESTION 13

Which two statements about OCVPN are true? (Choose two.)

A. Only root vdom supports OCVPN.

B. OCVPN supports static and dynamic IPs in WAN interface.

C. OCVPN offers only Hub-Spoke VPNs.

D. FortiGate devices under different FortiCare accounts can be used to form OCVPN.

Correct Answer: AB

Reference: https://docs.fortinet.com/document/fortigate/6.0.0/cookbook/977344/one-click-vpn-ocvpn
https://docs.fortinet.com/document/fortigate/6.2.9/cookbook/496884/overlay-controller-vpn- ocvpn

QUESTION 14

An administrator has created a VPN community within VPN Manager on FortiManager. They also added gateways to the VPN community and are now trying to create firewall policies to permit traffic over the tunnel; however, the VPN interfaces are not listed as available options.

What step must the administrator take to resolve this issue?

A. Install the VPN community and gateway configuration to the FortiGate devices, in order for the interfaces to be displayed within Policy and Objects on FortiManager

B. Set up all of the phase 1 settings in the VPN community that they neglected to set up initially. The interfaces will be automatically generated after the administrator configures all of the required settings.

C. Refresh the device status from the Device Manager so that FortiGate will populate the IPsec interfaces.

D. Create interface mappings for the IPsec VPN interfaces, before they can be used in a policy.

Correct Answer: A

Explanation: 1- Create a VPN Community 2- Install VPN Configuration 3- Add IPsec Firewall Policies 4- Install the Policies

QUESTION 15

A FortiGate has two default routes:

```
config router static
    edit 1
      set gateway 10.200.1.254
      set priority 5
      set device "port1"
    next
    edit2
      set gateway 10.200.2.254
      set priority 10
      set device "port2"
    next
end
```

All Internet traffic is currently using port1. The exhibit shows partial information for one sample session of Internet traffic from an internal user:

```
# diagnose sys session list
Session info: proto=6 proto_state=01 duration =17 expire=7 timeout=3600
flags= 00000000 sockflag=00000000 sockport=0 av idx=0 use=3
ha_id=0 policy_dir=0 tunnel=/
state=may_dirty none app_ntf
statistic (bytes/packets/allow_err): org=575/7/1 reply=23367/19/1 tuples=2
origin->sink: org pre->post, reply pre->post dev=4->2/2->4
gwy=10.200.1.254/10.0.1.10
hook=post dir=org act=snat 10.0.1.10:64907-
>54.239.158.170:80(10.200.1.1:64907)
hook=pre dir=reply act=dnat 54.239.158.170:80-
>10.200.1.1:64907(10.0.1.10:64907)
pos/(before, after) 0/(0,0), 0/(0,0)
misc=0 policy_id=1 auth_info=0 chk_client_info=0 vd=0
serial=00000294 tos=ff/ff ips_view=0 app_list=0 app=0
dd_type=0 dd_mode=0
```

What would happen with the traffic matching the above session if the priority on the first default route (IDd1) were changed from 5 to 20?

A. The session would be deleted, and the client would need to start a new session.

B. The session would remain in the session table, and its traffic would start to egress from port2.

C. The session would remain in the session table, but its traffic would now egress from both port1 and port2.

D. The session would remain in the session table, and its traffic would still egress from port1.

Correct Answer: D