NSE8_812 Q&As

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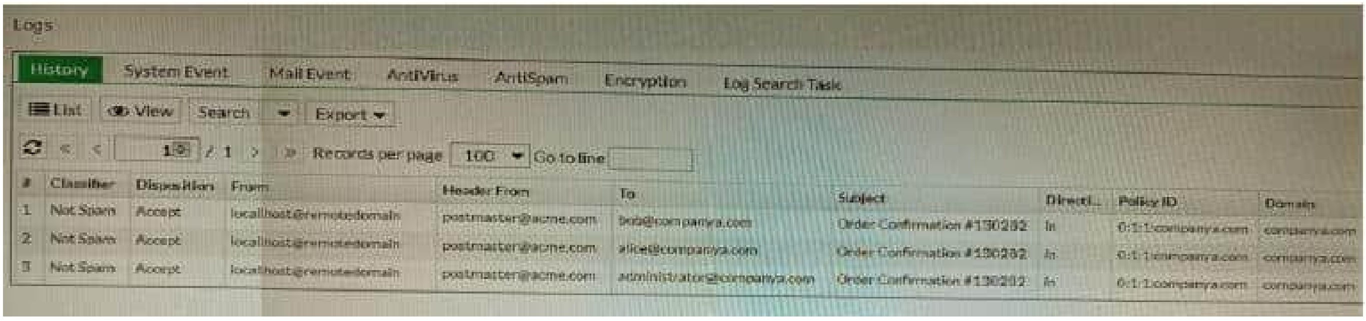
QUESTION 1

Refer to the exhibit showing the history logs from a FortiMail device.



#	Classifier	Disposition	From	Header From	To	Subject	Directi...	Policy ID	Domain
1	Not Spam	Accept	localhost@remotedomain	postmaster@acme.com	bob@companya.com	Order Confirmation #130282	In	0:1:1:companya.com	companya.com
2	Not Spam	Accept	localhost@remotedomain	postmaster@acme.com	alice@companya.com	Order Confirmation #130282	In	0:1:1companya.com	companya.com
3	Not Spam	Accept	localhost@remotedomain	postmaster@acme.com	administrator@companya.com	Order Confirmation #130282	In	0:1:1companya.com	companya.com

Which FortiMail email security feature can an administrator enable to treat these emails as spam?

A. DKIM validation in a session profile

B. Sender domain validation in a session profile

C. Impersonation analysis in an antispam profile

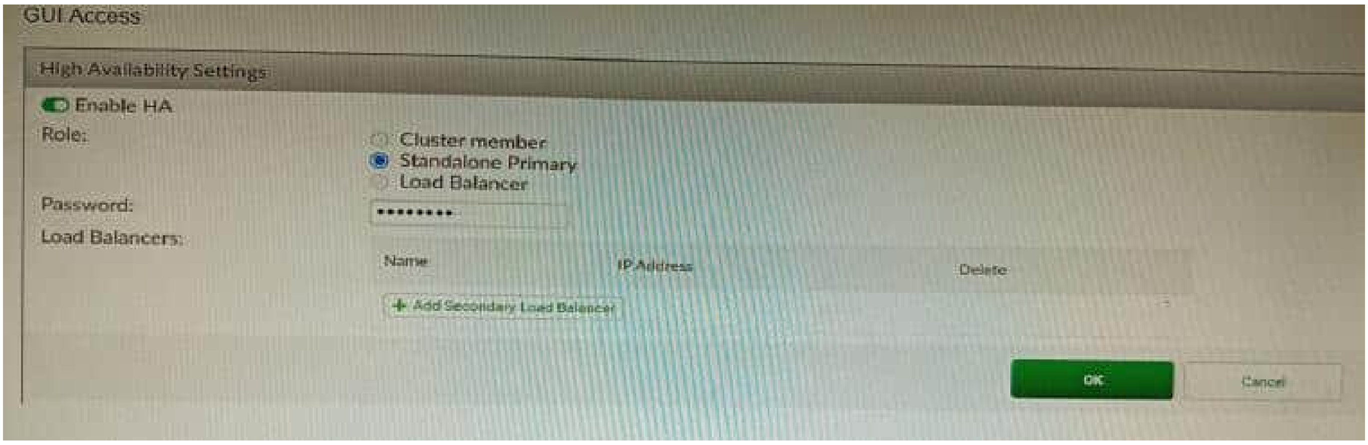
D. Soft fail SPF validation in an antispam profile

Correct Answer: C

Explanation: Impersonation analysis is a feature that detects emails that attempt to impersonate a trusted sender, such as a company executive or a well-known brand, by using spoofed or look-alike email addresses. This feature can help prevent phishing and business email compromise (BEC) attacks. Impersonation analysis can be enabled in an antispam profile and applied to a firewall policy.
References:https://docs.fortinet.com/document/fortimail/6.4.0/administrationguide/103663/impersonation-analysis

QUESTION 2

Refer to the exhibit, which shows the high availability configuration for the FortiAuthenticator (FAC1).



High Availability Settings

Enable HA

Role:
○ Cluster member
● Standalone Primary
○ Load Balancer

Password: *********

Load Balancers:

Name	IP Address	Delete

Based on this information, which statement is true about the next FortiAuthenticator (FAC2) member that will join an HA cluster with this FortiAuthenticator (FAC1)?

A. FAC2 can only process requests when FAC1 fails.

B. FAC2 can have its HA interface on a different network than FAC1.

C. The FortiToken license will need to be installed on the FAC2.

D. FSSO sessions from FAC1 will be synchronized to FAC2.

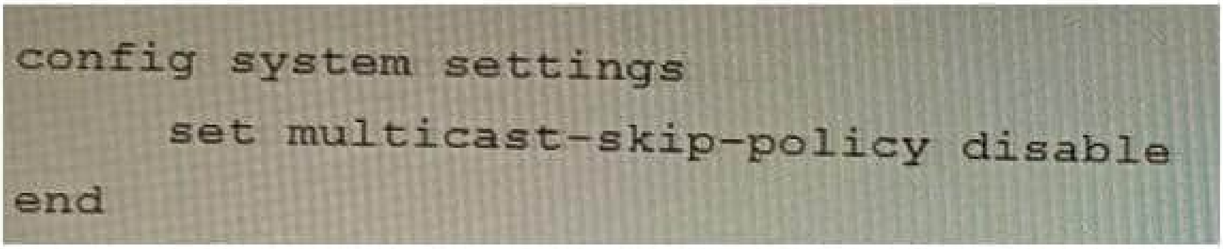
Correct Answer: D

Explanation: When FortiAuthenticator operates in cluster mode, it provides active-passive failover and synchronization of all configuration and data, including FSSO sessions, between the cluster members. Therefore, if FAC1 is the active unit and FAC2 is the standby unit, any FSSO sessions from FAC1 will be synchronized to FAC2. If FAC1 fails, FAC2 will take over the active role and continue to process the FSSO sessions. References:https://docs.fortinet.com/document/ fortiauthenticator/6.1.2/administration- guide/122076/high-availability

QUESTION 3

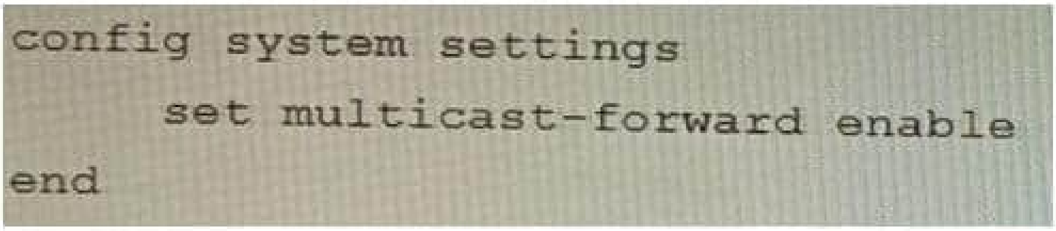
On a FortiGate Configured in Transparent mode, which configuration option allows you to control Multicast traffic passing through the?

○ A.



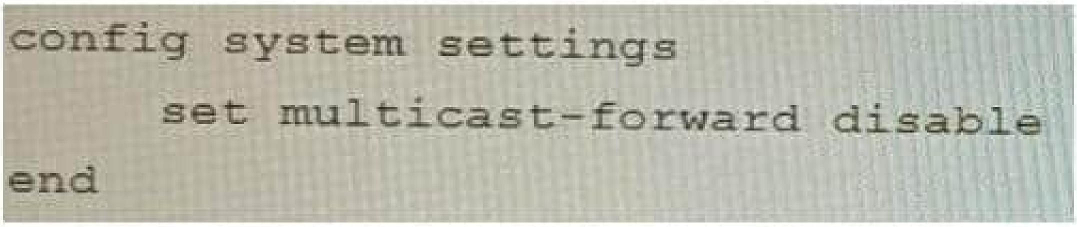
```
config system settings
    set multicast-skip-policy disable
end
```

○ B.



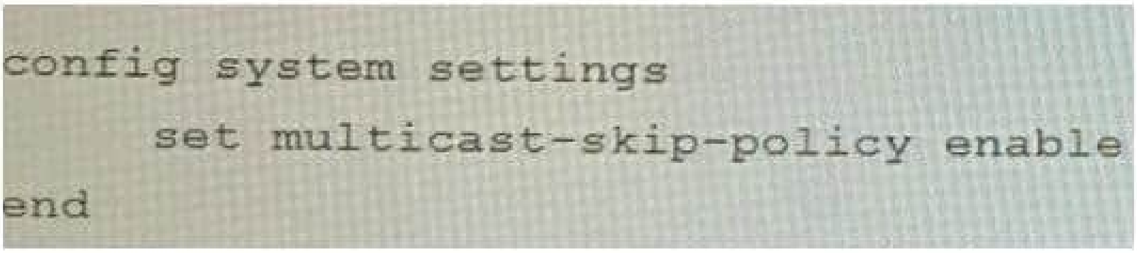
```
config system settings
    set multicast-forward enable
end
```

○ C.



```
config system settings
    set multicast-forward disable
end
```

○ D.



```
config system settings
    set multicast-skip-policy enable
end
```

A. Option A

B. Option B

C. Option C

D. Option D

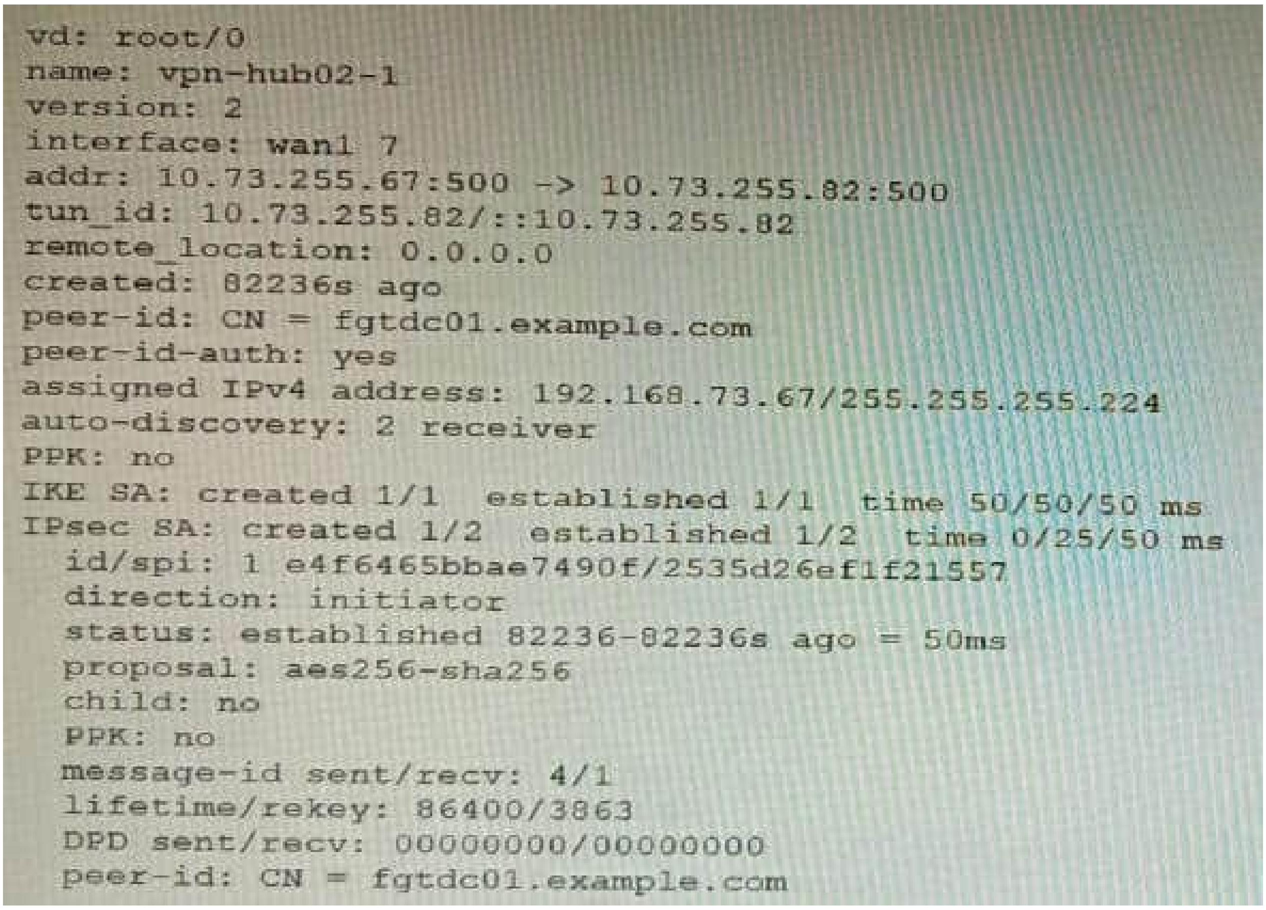
Correct Answer: C

Explanation: To control multicast traffic passing through a FortiGate configured in transparent mode, you can use multicast policies. Multicast policies allow you to filter multicast traffic based on source and destination addresses, protocols, and interfaces. You can also apply securityprofiles to scan multicast traffic for threats and violations. References:https://docs.fortinet.com/document/fortigate/6.2.14/cookbook/968606/configurin g-multicast-forwarding

QUESTION 4

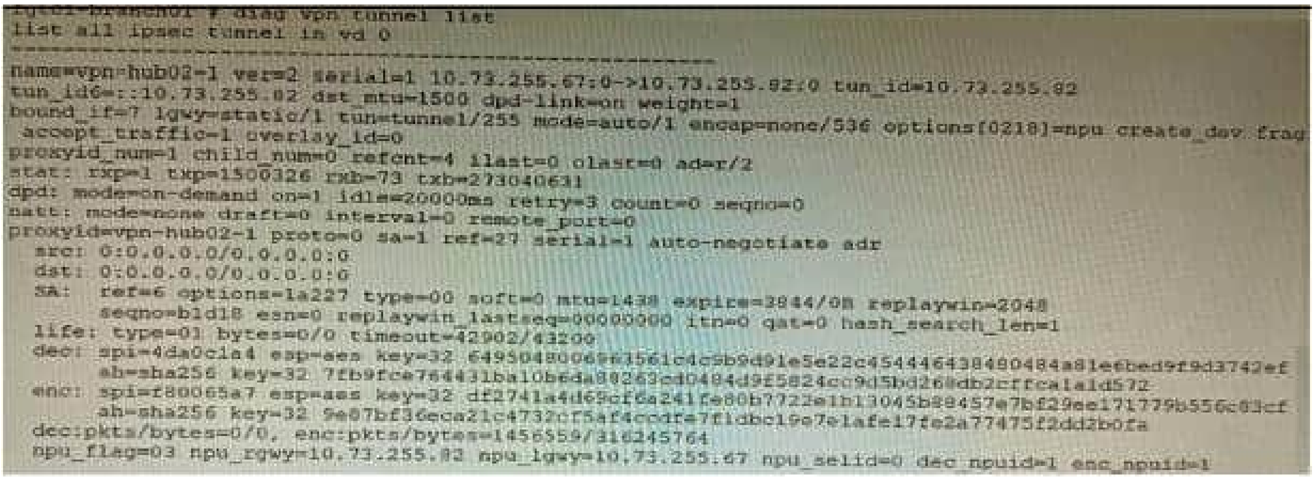
Refer to the exhibits.

Exhibit A



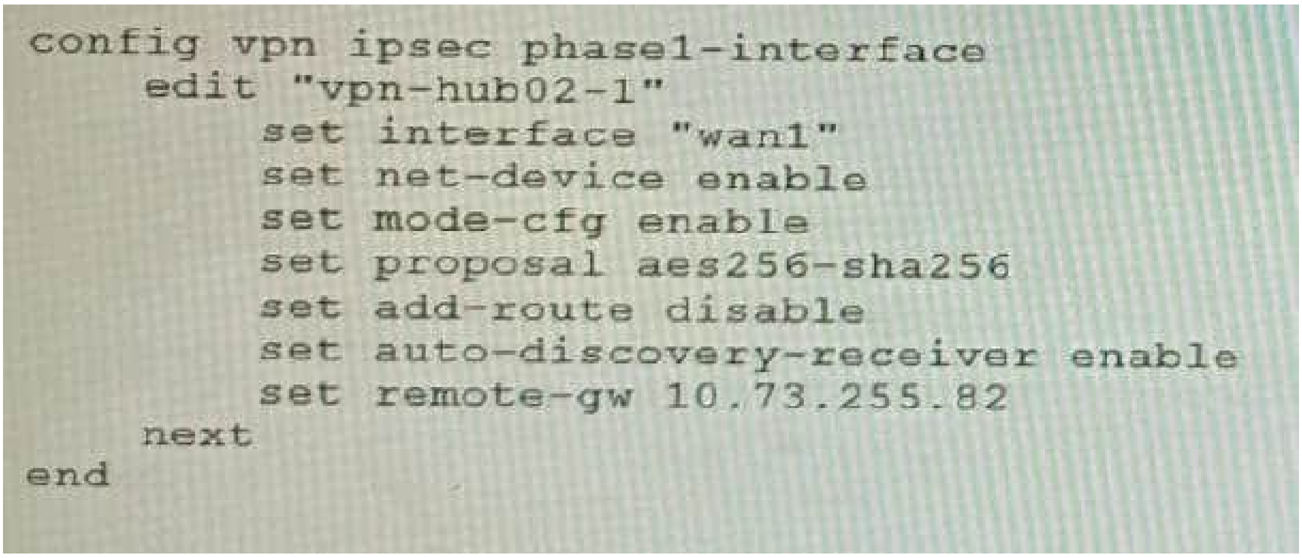
```
vd: root/0
name: vpn-hub02-1
version: 2
interface: wan1 7
addr: 10.73.255.67:500 -> 10.73.255.82:500
tun_id: 10.73.255.82/::10.73.255.82
remote_location: 0.0.0.0
created: 82236s ago
peer-id: CN = fgtdc01.example.com
peer-id-auth: yes
assigned IPv4 address: 192.168.73.67/255.255.255.224
auto-discovery: 2 receiver
PPK: no
IKE SA: created 1/1  established 1/1  time 50/50/50 ms
IPsec SA: created 1/2  established 1/2  time 0/25/50 ms
  id/spi: 1 e4f6465bbae7490f/2535d26ef1f21557
  direction: initiator
  status: established 82236-82236s ago = 50ms
  proposal: aes256-sha256
  child: no
  PPK: no
  message-id sent/recv: 4/1
  lifetime/rekey: 86400/3863
  DPD sent/recv: 00000000/00000000
  peer-id: CN = fgtdc01.example.com
```

Exhibit B



```
fgt01-branch01 # diag vpn tunnel list
list all ipsec tunnel in vd 0
------------------------------------------------------------
name=vpn-hub02-1 ver=2 serial=1 10.73.255.67:0->10.73.255.82:0 tun_id=10.73.255.82
tun_id6=::10.73.255.82 dst_mtu=1500 dpd-link=on weight=1
bound_if=7 lgwy=static/1 tun=tunnel1/255 mode=auto/1 encap=none/536 options[0218]=npu create_dev frag
 accept_traffic=1 overlay_id=0
proxyid_num=1 child_num=0 refcnt=4 ilast=0 olast=0 ad=r/2
stat: rxp=1 txp=1500326 rxb=73 txb=273040631
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-hub02-1 proto=0 sa=1 ref=27 serial=1 auto-negotiate adr
  src: 0:0.0.0.0/0.0.0.0:0
  dst: 0:0.0.0.0/0.0.0.0:0
  SA:  ref=6 options=1a227 type=00 soft=0 mtu=1438 expire=3844/0B replaywin=2048
       seqno=b1d18 esn=0 replaywin_lastseq=00000000 itn=0 qat=0 hash_search_len=1
  life: type=01 bytes=0/0 timeout=42902/43200
  dec: spi=4da0c1a4 esp=aes key=32 6495048006963561c4c9b9d91e5e22c4544464384904 84a81e6bed9f9d3742ef
       ah=sha256 key=32 7fb9fce764431ba10b6da80263cd0484d9f5824cc9d5bd268db2cffca1a1d572
  enc: spi=f80065a7 esp=aes key=32 df2741a4d69cf6a241fe80b7722e1b13045b88457e7bf29ee171779b556c03cf
       ah=sha256 key=32 9e87bf36eca21c4732cf5af4ccdfe7f1dbc19e7e1afe17fe2a77475f2dd2b0fa
  dec:pkts/bytes=0/0, enc:pkts/bytes=1456559/316245764
  npu_flag=03 npu_rgwy=10.73.255.82 npu_lgwy=10.73.255.67 npu_selid=0 dec_npuid=1 enc_npuid=1
```

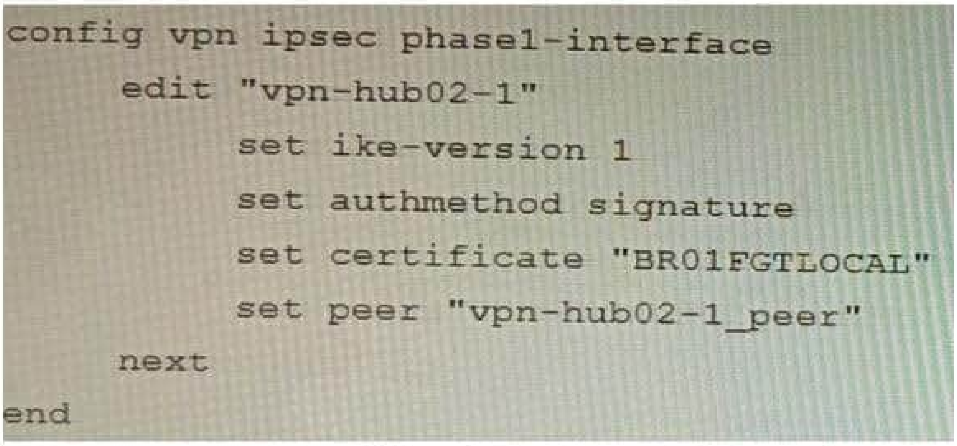
Exhibit C



```
config vpn ipsec phase1-interface
    edit "vpn-hub02-1"
        set interface "wan1"
        set net-device enable
        set mode-cfg enable
        set proposal aes256-sha256
        set add-route disable
        set auto-discovery-receiver enable
        set remote-gw 10.73.255.82
    next
end
```

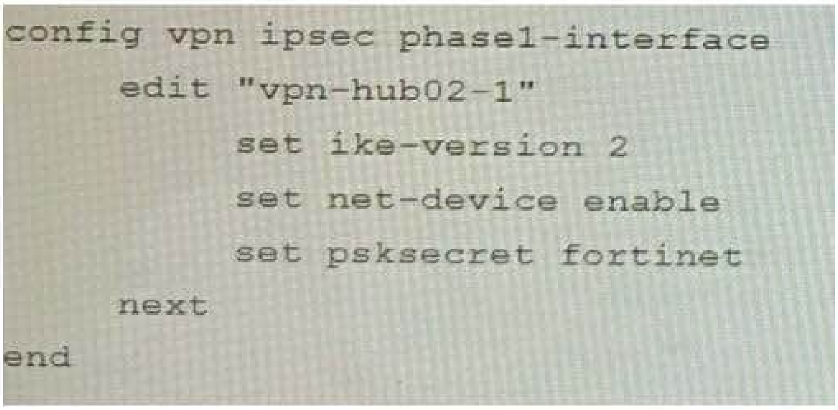
A customer is trying to set up a VPN with a FortiGate, but they do not have a backup of the configuration. Output during a troubleshooting session is shown in the exhibits A and B and a baseline VPN configuration is shown in Exhibit C Referring to the exhibits, which configuration will restore VPN connectivity?

○ A.



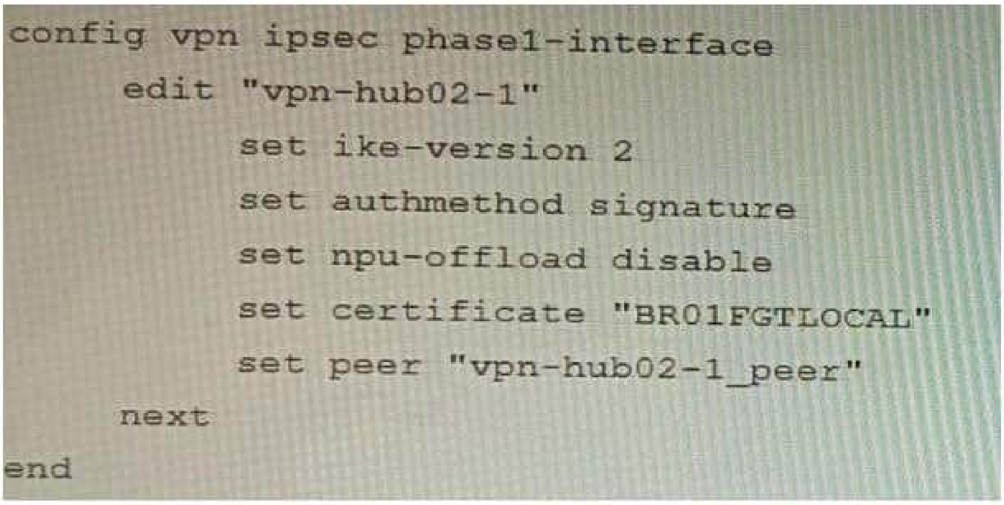
```
config vpn ipsec phase1-interface
    edit "vpn-hub02-1"
        set ike-version 1
        set authmethod signature
        set certificate "BR01FGTLOCAL"
        set peer "vpn-hub02-1_peer"
    next
end
```

○ B.



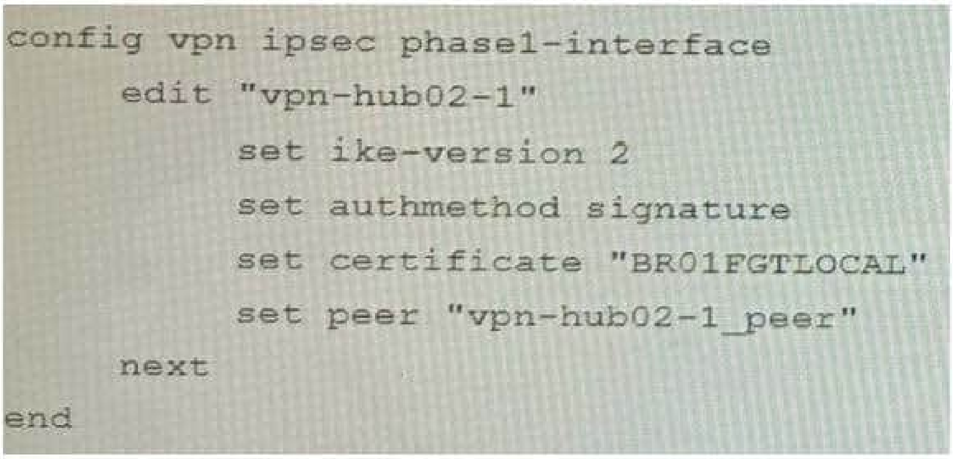
```
config vpn ipsec phase1-interface
    edit "vpn-hub02-1"
        set ike-version 2
        set net-device enable
        set psksecret fortinet
    next
end
```

○ C.



```
config vpn ipsec phase1-interface
    edit "vpn-hub02-1"
        set ike-version 2
        set authmethod signature
        set npu-offload disable
        set certificate "BR01FGTLOCAL"
        set peer "vpn-hub02-1_peer"
    next
end
```

○ D.



```
config vpn ipsec phase1-interface
    edit "vpn-hub02-1"
        set ike-version 2
        set authmethod signature
        set certificate "BR01FGTLOCAL"
        set peer "vpn-hub02-1_peer"
    next
end
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

Explanation: The output in Exhibit A shows that the VPN tunnel is not established because the peer IP address is incorrect. The output in Exhibit B shows that the peer IP address is 192.168.1.100, but the baseline VPN configuration in Exhibit C shows that the peer IP address should be 192.168.1.101. To restore VPN connectivity, you need to change the peer IP address in the VPN tunnel configuration to 192.168.1.101. The correct configuration is shown below: config vpn ipsec phase1-interface edit "wan" set peer-ip 192.168.1.101 set peer-id 192.168.1.101 set dhgrp 1 set auth-mode psk set psk SECRET_PSK next end Option A is incorrect because it does not change the peer IP address. Option B is incorrect because it changes the peer IP address to 192.168.1.100, which is the incorrect IP address. Option D is incorrect because it does not include the necessary configuration for the VPN tunnel.

QUESTION 5

A customer\\'s cybersecurity department needs to implement security for the traffic between two VPCs in AWS, but these belong to different departments within the company. The company uses a single region for all their VPCs.

Which two actions will achieve this requirement while keeping separate management of each department\\'s VPC? (Choose two.)

A. Create a transit VPC with a FortiGate HA cluster, connect to the other two using VPC peering, and use routing tables to force traffic through the FortiGate cluster.

B. Create an 1AM account for the cybersecurity department to manage both existing VPC, create a FortiGate HA Cluster on each VPC and IPSEC VPN to force traffic between the VPCs through the FortiGate clusters

C. Migrate all the instances to the same VPC and create 1AM accounts for each department, then implement a new subnet for a FortiGate auto-scaling group and use routing tables to force the traffic through the FortiGate cluster.

D. Create a VPC with a FortiGate auto-scaling group with a Transit Gateway attached to the three VPC to force routing through the FortiGate cluster

Correct Answer: AD

Explanation: To implement security for the traffic between two VPCs in AWS, while keeping separate management of each department\\'s VPC, two possible actions are: Create a transit VPC with a FortiGate HA cluster, connect to the other two using VPC peering, and use routing tables to force traffic through the FortiGate cluster. This option allows the cybersecurity department to manage the transit VPC and apply security policies on the FortiGate cluster, while the other departments can manage their own VPCs and instances. The VPC peering connections enable direct communication between the VPCs without using public IPs or gateways. The routing tables can be configured to direct all inter-VPC traffic to the transit VPC. Create a VPC with a FortiGate auto-scaling group with a Transit Gateway attached to the three VPCs to force routing through the FortiGate cluster. This option also allows the cybersecurity department to manage the security VPC and apply security policies on the FortiGate cluster, while the other departments can manage their own VPCs and instances. The Transit Gateway acts as a network hub that connects multiple VPCs and on-premises networks. The routing tables can be configured to direct all inter-VPC traffic to the security VPC. References: https://docs.fortinet.com/document/fortigate-public-cloud/7.2.0/aws-administration- guide/506140/connecting-a-local-fortigate-to-an-aws-vpc-vpn https://docs.fortinet.com/document/fortigate-public-cloud/7.0.0/sd-wan- architecture-forenterprise/166334/sd-wan-configuration