

# 300-730<sup>Q&As</sup>

Implementing Secure Solutions with Virtual Private Networks (SVPN)

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**QUESTION 1**

Refer to the exhibit.

<pre>vrf definition Yellow rd 1:1 route-target import 1:1 route-target import 1:1 route-target import 10:10 ! interface Tunnel0 vrf forwarding Yellow ip address 10.0.0.1 255.255.255.0 ip nhrp network-id 100 ip nhrp authentication Yellow no ip split-horizon eigrp 1 tunnel key 100 ! interface Ethernet0/0 vrf forwarding Yellow ip address 192.168.0.1 255.255.255.0 ! router eigrp 1 ! address-family ipv4 vrf Yellow redistribute bgp 1 network 10.0.0.0.0.0.255 network 192.168.0.0 exit-address-family ! router bgp 1 ! address-family ipv4 vrf Yellow redistribute connected redistribute eigrp 1 exit-address-family</pre>	<pre>vrf definition Red rd 2:2 route-target export 2:2 route-target import 2:2 route-target import 10:10 ! interface Tunnel2 vrf forwarding Red ip address 10.0.2.1 255.255.255.0 ip nhrp network-id 102 ip nhrp authentication Red no ip split-horizon eigrp 1 tunnel key 102 ! interface Ethernet1/0 vrf forwarding Red ip address 192.168.2.1 255.255.255.0 ! router eigrp 1 ! address-family ipv4 vrf Red redistribute bgp 1 network 10.0.2.0.0.0.255 network 192.168.2.0 exit-address-family ! router bgp 1 ! address-family ipv4 vrf Red redistribute connected redistribute eigrp 1 exit-address-family</pre>	<pre>vrf definition Green rd 3:3 route-target import 3:3 route-target import 3:3 route-target import 10:10 ! interface Tunnel4 vrf forwarding Green ip address 10.0.4.1 255.255.255.0 ip nhrp network-id 104 ip nhrp authentication Green no ip split-horizon eigrp 1 tunnel key 104 ! interface Ethernet2/0 vrf forwarding Green ip address 192.168.4.1 255.255.255.0 ! router eigrp 1 ! address-family ipv4 vrf Green redistribute bgp 1 network 10.0.4.0.0.0.255 network 192.168.4.0 exit-address-family ! router bgp 1 ! address-family ipv4 vrf Green redistribute connected redistribute eigrp 1 exit-address-family</pre>
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Based on the configuration output, what is the VPN technology?

- A. site-to-site
- B. DMVPN
- C. L2VPN
- D. multicast VPN

Correct Answer: C

**QUESTION 2**

Which two commands help determine why the NHRP registration process is not being completed even after the IPsec tunnel is up? (Choose two.)

- A. show crypto isakmp sa
- B. show ip traffic
- C. show crypto ipsec sa
- D. show ip nhrp traffic

E. show dmvpn detail

Correct Answer: AD

<https://www.cisco.com/c/en/us/support/docs/security/dynamic-multipoint-vpn-dmvpn/111976-dmvpn-troubleshoot-00.html>

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### QUESTION 3

Which two features are valid backup options for an IOS FlexVPN client? (Choose two.)

- A. HSRP stateless failover
- B. DNS-based hub resolution
- C. reactivate primary peer
- D. tunnel pivot E. need distractor

Correct Answer: BC

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### QUESTION 4

Which Cisco AnyConnect component ensures that devices in a specific internal subnet are only accessible using port 443?

- A. routing
- B. WebACL
- C. split tunnel
- D. VPN filter

Correct Answer: D

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### QUESTION 5

Refer to the exhibit.

```
HUB#show ip nhrp
10.0.0.2/32 via 10.0.0.2
  Tunnel0 created 00:02:09, expire 00:00:01
  Type: dynamic, Flags: unique registered used nhop
  NBMA address: 2.2.2.1
10.0.0.3/32 via 10.0.0.3
  Tunnel0 created 00:13:25, 01:46:34
  Type: dynamic, Flags: unique registered used nhop
  NBMA address: 3.3.3.1
```

The DMVPN tunnel is dropping randomly and no tunnel protection is configured. Which spoke configuration mitigates tunnel drops?

- A. `interface Tunnel0`  
`ip address 10.0.0.2 255.255.255.0`  
`no ip redirects`  
`ip nhrp map 10.0.0.1 1.1.1.1`  
`ip nhrp map multicast 1.1.1.1`  
`ip nhrp network-id 1`  
`ip nhrp holdtime 20`  
`ip nhrp nhs 10.0.0.1`  
`ip nhrp registration timeout 120`  
`ip nhrp shortcut`  
`tunnel source GigabitEthernet0/1`  
`tunnel mode gre multipoint`  
`end`
- B. `interface Tunnel0`  
`ip address 10.0.0.2 255.255.255.0`  
`no ip redirects`  
`ip nhrp map 10.0.0.1 1.1.1.1`  
`ip nhrp map multicast 1.1.1.1`  
`ip nhrp network-id 1`  
`ip nhrp holdtime 120`  
`ip nhrp nhs 10.0.0.1`  
`ip nhrp registration timeout 120`  
`ip nhrp shortcut`  
`tunnel source GigabitEthernet0/1`  
`tunnel mode gre multipoint`  
`end`
- C. `interface Tunnel0`  
`ip address 10.0.0.2 255.255.255.0`  
`no ip redirects`  
`ip nhrp map 10.0.0.1 1.1.1.1`  
`ip nhrp map multicast 1.1.1.1`  
`ip nhrp network-id 1`  
`ip nhrp holdtime 120`  
`ip nhrp nhs 10.0.0.1`  
`ip nhrp registration timeout 20`  
`ip nhrp shortcut`  
`tunnel source GigabitEthernet0/1`  
`tunnel mode gre multipoint`  
`end`
- D. `interface Tunnel0`  
`ip address 10.0.0.2 255.255.255.0`  
`no ip redirects`  
`ip nhrp map 10.0.0.1 1.1.1.1`  
`ip nhrp map multicast 1.1.1.1`  
`ip nhrp network-id 1`  
`ip nhrp holdtime 120`  
`ip nhrp nhs 10.0.0.1`  
`ip nhrp registration timeout 150`  
`ip nhrp shortcut`  
`tunnel source GigabitEthernet0/1`  
`tunnel mode gre multipoint`  
`end`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

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#### QUESTION 6

Which configuration allows a Cisco ASA to receive an IPsec connection from a peer with an unknown IP address?

- A. dynamic crypto map
- B. dynamic tunnel group
- C. dynamic AAA attributes
- D. dynamic access policy

Correct Answer: A

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#### QUESTION 7

Which parameter is initially used to elect the primary key server from a group of key servers?

- A. code version
- B. highest IP address
- C. highest-priority value
- D. lowest IP address

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/products/collateral/security/group-encrypted-transport-vpn/deployment\\_guide\\_c07\\_554713.html](https://www.cisco.com/c/en/us/products/collateral/security/group-encrypted-transport-vpn/deployment_guide_c07_554713.html)

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#### QUESTION 8

Which two features provide headend resiliency for Cisco AnyConnect clients? (Choose two.)

- A. AnyConnect Auto Reconnect
- B. AnyConnect Network Access Manager

- C. AnyConnect Backup Servers
- D. ASA failover
- E. AnyConnect Always On

Correct Answer: CD

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#### QUESTION 9

Where must an engineer configure a preshared key for a site-to-site VPN tunnel configured on a Cisco ASA?

- A. isakmp policy
- B. group policy
- C. crypto map
- D. tunnel group

Correct Answer: D

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#### QUESTION 10

What uses an Elliptic Curve key exchange algorithm?

- A. ECDSA
- B. ECDHE
- C. AES-GCM
- D. SHA

Correct Answer: B

Reference: <https://blog.cloudflare.com/a-relatively-easy-to-understand-primer-on-elliptic-curve-cryptography/>

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#### QUESTION 11

Users are getting untrusted server warnings when they connect to the URL <https://asa.lab> from their browsers. This URL resolves to 192.168.10.10, which is the IP address for a Cisco ASA configured for a clientless VPN. The VPN was recently set up and issued a certificate from an internal CA server. Users can connect to the VPN by ignoring the message, however, when users access other webservers that use certificates issued by the same internal CA server, they do not experience this issue. Which action resolves this issue?

- A. Import the CA that signed the certificate into the machine trusted root CA store.
- B. Reissue the certificate with [asa.lab](https://asa.lab) in the subject alternative name field.
- C. Import the CA that signed the certificate into the user trusted root CA store.

D. Reissue the certificate with 192.168.10.10 in the subject common name field.

Correct Answer: C

## QUESTION 12

Refer to the exhibit.

```
!  
interface Tunnel0  
  vrf forwarding GREEN  
  no ip address  
  no ip redirects  
  ipv6 address FE80::2001 link-local  
  ipv6 address 2001:DB8:1:1::1/64  
  ipv6 nhrp authentication cisco123  
  ipv6 nhrp map multicast dynamic  
  ipv6 nhrp network-id 100  
  tunnel source FastEthernet0/0  
  tunnel mode gre multipoint  
  tunnel vrf RED  
!
```

Which type of VPN is used in the configuration?

- A. GETVPN
- B. FlexVPN
- C. DMVPN
- D. IPsec

Correct Answer: C

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_dmvpn/configuration/15-mt/sec-conn-dmvpn-15-mt-book/sec-conn-dmvpn-ip6-dmvpn.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_dmvpn/configuration/15-mt/sec-conn-dmvpn-15-mt-book/sec-conn-dmvpn-ip6-dmvpn.html)

## QUESTION 13

A clientless SSLVPN solution is built for 10 employees on a newly installed Cisco ASA. After a couple of days in production, it has been observed that only the first two users to log in each day are able to connect successfully. The remaining users encounter the message "Login failed". Which action resolves the issue?

- A. Allocate additional Cisco AnyConnect Premium licenses to the ASA.



- B. Increase the vpn-simultaneous-logins parameter to a value of more than 2.
- C. Increase the number of IP addresses available in the VPN pool.
- D. Verify that the users that cannot log in are in the correct AD group with VPN permissions.

Correct Answer: A

Reference: <https://www.cisco.com/c/en/us/support/docs/security/asa-5500-x-series-firewalls/212972-anyconnect-vpn-client-troubleshooting-gu.html#anc70>

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#### QUESTION 14

Which feature allows a DMVPN Phase 3 spoke to switch to an alternate hub when the primary hub is unreachable?

- A. multicast PIM
- B. backup NHS
- C. per-tunnel jitter probes
- D. NHRP shortcut

Correct Answer: B

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#### QUESTION 15

In order to enable FlexVPN to use a AAA attribute list, which two tasks must be performed? (Choose two.)

- A. Define the RADIUS server.
- B. Verify that clients are using the correct authorization policy.
- C. Define the AAA server.
- D. Assign the list to an authorization policy.
- E. Set the maximum segment size.

Correct Answer: BD

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