

## Exam Questions 300-730

Implementing Secure Solutions with Virtual Private Networks (SVPN)

<https://www.2passeasy.com/dumps/300-730/>



# NEW QUESTION 1

DRAG DROP

Drag and drop the correct commands from the right onto the blanks within the code on the left to implement a design that allow for dynamic spoke-to-spoke communication. Not all comments are used.

Select and Place:

## Answer Area

### Router A

```
interface Tunnell
  ip address 10.0.0.1 255.255.255.0
  ip nhrp mp multicast dynamic
  ip nhrp network-id 1
  ip nhrp 
  no ip split-horizon eigrp 10
  tunnel source GigabitEthernet1
  tunnel mode gre multipoint

interface GigabitEthernet1
  ip address 1.1.1.1 255.255.255.0

router eigrp 10
  network 10.0.0.0 0.0.0.255
```

1.1.1.1

10.0.0.1

redirect

### Router B

```
interface Tunnell
  ip address 10.0.0.2 255.255.255.0
  ip nhrp nhs nbma multicast
  ip nhrp network-id 1
  ip nhrp 
  tunnel source GigabitEthernet1
  tunnel mode gre multipoint

interface GigabitEthernet1
  ip address 2.2.2.2 255.255.255.0

router eigrp 10
  network 10.0.0.0 0.0.0.255
```

shortcut

server-only

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_dmvpn/configuration/xr-16/sec-conn-dmvpn-xr-16-book/sec-conn-dmvpn-summaps.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_dmvpn/configuration/xr-16/sec-conn-dmvpn-xr-16-book/sec-conn-dmvpn-summaps.html)

# NEW QUESTION 2

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
```

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 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
```

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 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
```

Answer: D

### NEW QUESTION 3

On a FlexVPN hub-and-spoke topology where spoke-to-spoke tunnels are not allowed, which command is needed for the hub to be able to terminate FlexVPN tunnels?

- A. interface virtual-access
- B. ip nhrp redirect
- C. interface tunnel
- D. interface virtual-template

**Answer:** D

### NEW QUESTION 4

Which statement about GETVPN is true?

- A. The configuration that defines which traffic to encrypt originates from the key server.
- B. TEK rekeys can be load-balanced between two key servers operating in COOP.
- C. The pseudotime that is used for replay checking is synchronized via NTP.
- D. Group members must acknowledge all KEK and TEK rekeys, regardless of configuration.

**Answer:** A

### NEW QUESTION 5

Which command identifies a Cisco AnyConnect profile that was uploaded to the flash of an IOS router?

- A. svc import profile SSL\_profile flash:simos-profile.xml
- B. anyconnect profile SSL\_profile flash:simos-profile.xml
- C. crypto vpn anyconnect profile SSL\_profile flash:simos-profile.xml
- D. webvpn import profile SSL\_profile flash:simos-profile.xml

**Answer:** C

### Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/security/anyconnect-secure-mobility-client/200533-AnyConnect-Configure-Basic-SSLVPN-for-I.html>

### NEW QUESTION 6

Refer to the exhibit.

Which value must be configured in the User Group field when the Cisco AnyConnect Profile is created to connect to an ASA headend with IPsec as the primary protocol?

- A. address-pool
- B. group-alias
- C. group-policy
- D. tunnel-group



Answer: D

**Explanation:**

Reference: [https://www.cisco.com/c/en/us/td/docs/security/vpn\\_client/anyconnect/anyconnect41/administration/guide/b\\_AnyConnect\\_Administrator\\_Guide\\_4-1/configure-vpn.html](https://www.cisco.com/c/en/us/td/docs/security/vpn_client/anyconnect/anyconnect41/administration/guide/b_AnyConnect_Administrator_Guide_4-1/configure-vpn.html)

**NEW QUESTION 7**

Refer to the exhibit.

```
aaa new-model
!
aaa authorization network local-group-author-list local
!
crypto pki trustpoint trustpoint1
  enrollment url http://192.168.3.1:80
  revocation-check crl
!
crypto pki certificate map certmap1 1
  subject-name co cisco
!
crypto ikev2 authorization policy author-policy1
  ipv6 pool v6-pool
  ipv6 dns 2001:DB8:1::11 2001:DB8:1::12
  ipv6 subnet-acl v6-acl
!
crypto ikev2 profile ikev2-profile1
  match certificate certmap1
  authentication local rsa-sig
  authentication remote rsa-sig
  pki trustpoint trustpoint1
  aaa authorization group cert list local-group-author-list
  author-policy1
  virtual-template 1
!
crypto ipsec transform-set transform1 esp-aes esp-sha-hmac
!
crypto ipsec profile ipsec-profile1
  set transform-set trans transform1
  set ikev2-profile ikev2-profile1
!
interface Ethernet0/0
  ipv6 address 2001:DB8:1::1/32
!
interface Virtual-Template1 type tunnel
  ipv6 unnumbered Ethernet0/0
  tunnel mode ipsec ipv6
  tunnel protection ipsec profile ipsec-profile1
!
ipv6 local pool v6-pool 2001:DB8:1::10/32 48
!
ipv6 access-list v6-acl
  permit ipv6 host 2001:DB8:1::20 any
  permit ipv6 host 2001:DB8:1::30 any
```

What is configured as a result of this command set?

- A. FlexVPN client profile for IPv6
- B. FlexVPN server to authorize groups by using an IPv6 external AAA
- C. FlexVPN server for an IPv6 dVTI session
- D. FlexVPN server to authenticate IPv6 peers by using EAP

Answer: A

**Explanation:**

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_ike2vpn/configuration/xr-3s/sec-flex-vpn-xr-3s-book/sec-cfg-flex-clnt.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_ike2vpn/configuration/xr-3s/sec-flex-vpn-xr-3s-book/sec-cfg-flex-clnt.html)

**NEW QUESTION 8**

Which two types of web resources or protocols are enabled by default on the Cisco ASA Clientless SSL VPN portal? (Choose two.)

- A. HTTP
- B. ICA (Citrix)
- C. VNC
- D. RDP
- E. CIFS

**Answer:** DE

**Explanation:**

Reference: <https://www.cisco.com/c/en/us/td/docs/security/asa/asa94/config-guides/cli/vpn/asa-94-vpn-config/webvpn-configure-gateway.html>

**NEW QUESTION 9**

A Cisco AnyConnect client establishes a SSL VPN connection with an ASA at the corporate office. An engineer must ensure that the client computer meets the enterprise security policy. Which feature can update the client to meet an enterprise security policy?

- A. Endpoint Assessment
- B. Cisco Secure Desktop
- C. Basic Host Scan
- D. Advanced Endpoint Assessment

**Answer:** D

**NEW QUESTION 10**

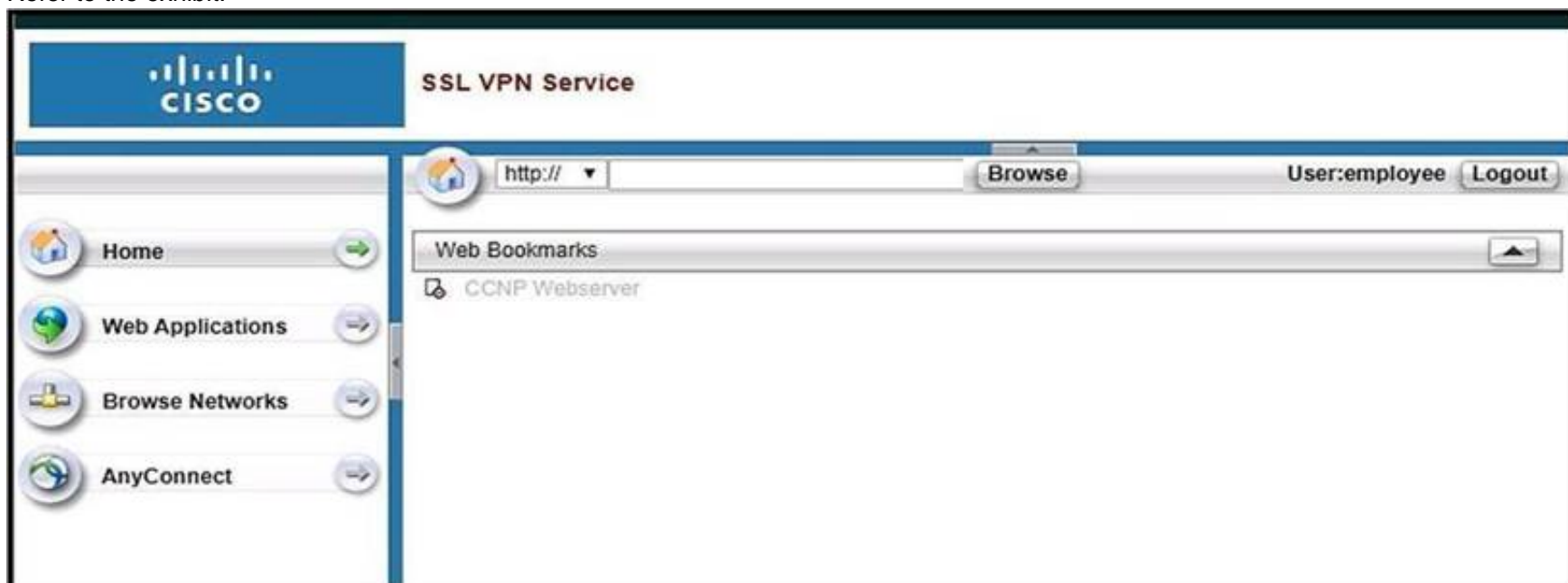
Under which section must a bookmark or URL list be configured on a Cisco ASA to be available for clientless SSLVPN users?

- A. tunnel-group (general-attributes)
- B. tunnel-group (webvpn-attributes)
- C. webvpn (group-policy)
- D. webvpn (global configuration)

**Answer:** D

**NEW QUESTION 10**

Refer to the exhibit.



Based on the exhibit, why are users unable to access CCNP Webserver bookmark?

- A. The URL is being blocked by a WebACL.
- B. The ASA cannot resolve the URL.
- C. The bookmark has been disabled.
- D. The user cannot access the URL.

**Answer:** C

**NEW QUESTION 14**

Which feature allows the ASA to handle nonstandard applications and web resources so that they display correctly over a clientless SSL VPN connection?

- A. single sign-on
- B. Smart Tunnel
- C. WebType ACL
- D. plug-ins

**Answer:** B

**Explanation:**

Reference: [https://www.cisco.com/c/en/us/td/docs/security/asa/asa90/configuration/guide/asa\\_90\\_cli\\_config/vpn\\_clientless\\_ssl.html#29951](https://www.cisco.com/c/en/us/td/docs/security/asa/asa90/configuration/guide/asa_90_cli_config/vpn_clientless_ssl.html#29951)

**NEW QUESTION 16**

Refer to the exhibit.

XML profile

```
<WindowsVPNEstablishment>AllowRemoteUsers</WindowsVPNEstablishment>
```

The customer must launch Cisco AnyConnect in the RDP machine. Which IOS configuration accomplishes this task?

- A. `crypto vpn anyconnect profile Profile 1 flash:RDP.xml`  
`webvpn context Context1`  
`svc platform win seq 1`  
`policy group PolicyGroup1`  
`functions svc-enabled`
- B. `crypto vpn anyconnect profile Profile 1 flash:RDP.xml`  
`webvpn context Context1`  
`browser-attribute import flash:RDP.xml`
- C. `crypto vpn anyconnect profile Profile 1 flash:RDP.xml`  
`webvpn context Context1`  
`policy group PolicyGroup1`  
`svc profile Profile1`
- D. `crypto vpn anyconnect profile Profile 1 flash:RDP.xml`  
`webvpn context Context1`  
`policy group PolicyGroup1`  
`svc module RDP`

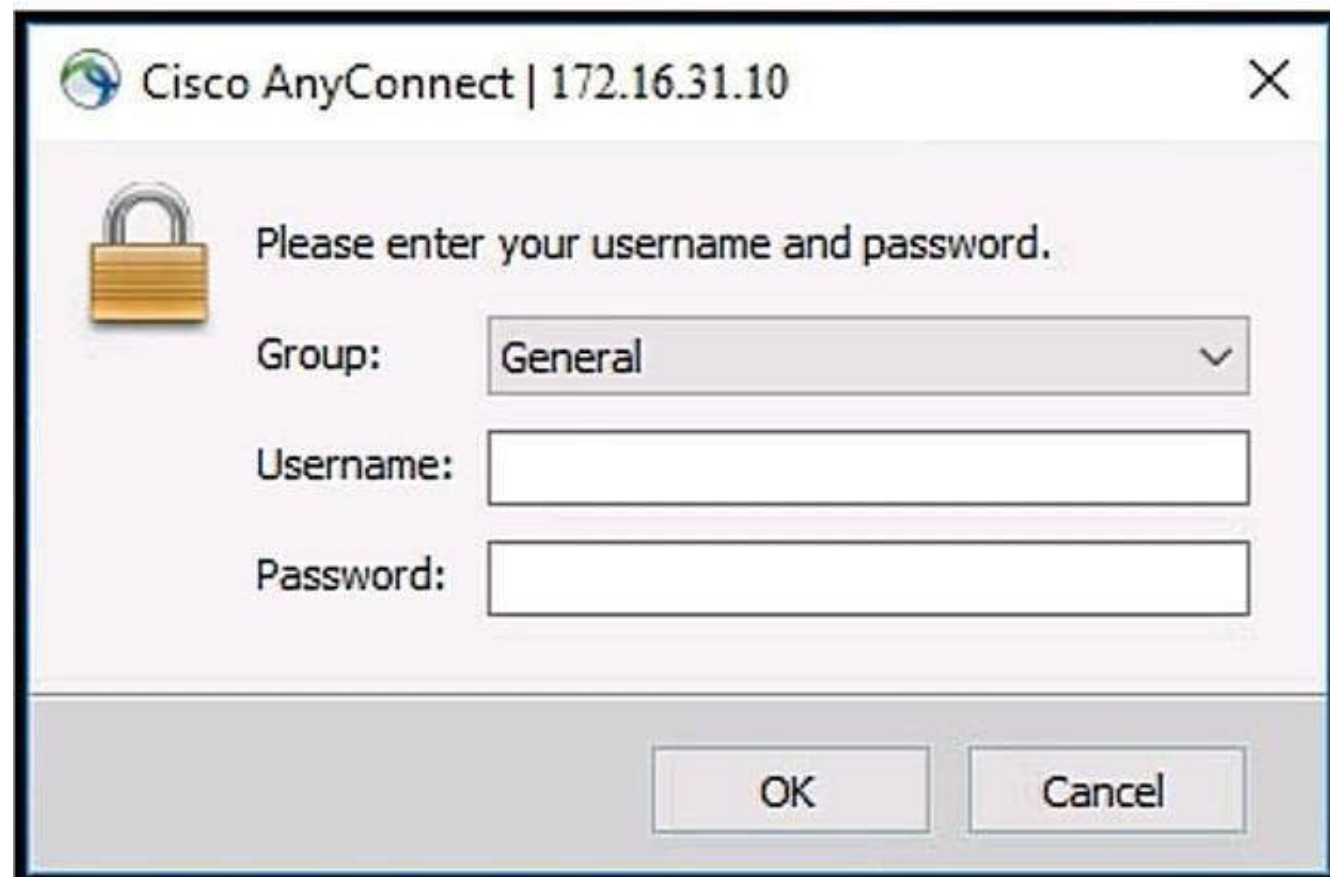
Answer: C

Explanation:

Reference: <https://community.cisco.com/t5/vpn/starting-anyconnect-vpn-through-rdp-session-on-cisco-891/td-p/2128284>

#### NEW QUESTION 17

Refer to the exhibit.



Which two commands under the tunnel-group webvpn-attributes result in a Cisco AnyConnect user receiving the AnyConnect prompt in the exhibit? (Choose two.)

- A. `group-url https://172.16.31.10/General enable`
- B. `group-policy General internal`
- C. `authentication aaa`
- D. `authentication certificate`
- E. `group-alias General enable`

Answer: BE

#### NEW QUESTION 18

Refer to the exhibit.



```
group-policy DfltGrpPolicy internal
group-policy DfltGrpPolicy attributes
  banner none
  dns-server value 10.10.10.10
  vpn-tunnel-protocol ssl-clientless
  default-domain value cisco.com
  address-pools value ACPool

group-policy Admin_Group internal
group-policy Admin_Group attributes
  vpn-simultaneous-logins 10
  vpn-tunnel-protocol ikev2 ssl-clientless
  split-tunnel-policy tunnelall

tunnel-group Admins type remote-access
tunnel-group Admins general-attributes
  default-group-policy Admin_Group
tunnel-group Admins webvpn-attributes
  group-alias Admins enable

tunnel-group Employee type remote-access
tunnel-group Employee webvpn-attributes
  group-alias Employee enable

webvpn
  enable outside
  anyconnect image disk0:/anyconnect-win-4.7.01076-webdeploy-k9.pkg 1
  anyconnect enable
  tunnel-group-list enable
```

Which VPN technology is allowed for users connecting to the Employee tunnel group?

- A. SSL AnyConnect
- B. IKEv2 AnyConnect
- C. crypto map
- D. clientless

**Answer:** B

#### NEW QUESTION 19

In a FlexVPN deployment, the spokes successfully connect to the hub, but spoke-to-spoke tunnels do not form. Which troubleshooting step solves the issue?

- A. Verify the spoke configuration to check if the NHRP redirect is enabled.
- B. Verify that the spoke receives redirect messages and sends resolution requests.
- C. Verify the hub configuration to check if the NHRP shortcut is enabled.
- D. Verify that the tunnel interface is contained within a VRF.

**Answer:** B

#### Explanation:

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-summaps.pdf](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-summaps.pdf)

#### NEW QUESTION 21

An engineer is troubleshooting a new DMVPN setup on a Cisco IOS router. After the show crypto isakmp sa command is issued, a response is returned of "MM\_NO\_STATE." Why does this failure occur?

- A. The ISAKMP policy priority values are invalid.
- B. ESP traffic is being dropped.
- C. The Phase 1 policy does not match on both devices.
- D. Tunnel protection is not applied to the DMVPN tunnel.

**Answer:** B

#### NEW QUESTION 26

Refer to the exhibit.



```
ISAKMP: (0):beginning Main Mode exchange
ISAKMP-PAK: (0):sending packet to 192.168.0.8 my_port 500 peer_port 500 (I) MM_NO_STATE
ISAKMP-PAK: (0):received packet from 192.168.0.8 dport 500 sport 500 Global (I) MM_NO_STATE
ISAKMP: (0):Old State = IKE_I_MM1 New State = IKE_I_MM2
ISAKMP: (0):found peer pre-shared key matching 192.168.0.8
ISAKMP: (0):local preshared key found
ISAKMP: (0):Checking ISAKMP transform 1 against priority 10 policy
ISAKMP: (0): encryption AES-CBC
ISAKMP: (0): keylength of 256
ISAKMP: (0): hash SHA256
ISAKMP: (0): default group 14
ISAKMP: (0): auth pre-share
ISAKMP: (0): life type in seconds
ISAKMP: (0): life duration (basic) of 1200
ISAKMP: (0):atts are acceptable. Next payload is 0
ISAKMP-PAK: (0):sending packet to 192.168.0.8 my_port 500 peer_port 500 (I) MM_SA_SETUP
ISAKMP: (0):Old State = IKE_I_MM2 New State = IKE_I_MM3
ISAKMP-PAK: (0):received packet from 192.168.0.8 dport 500 sport 500 Global (I) MM_SA_SETUP
ISAKMP: (0):Old State = IKE_I_MM3 New State = IKE_I_MM4
ISAKMP: (0):found peer pre-shared key matching 192.168.0.8
ISAKMP: (1005):Old State = IKE_I_MM4 New State = IKE_I_MM4
ISAKMP: (1005):pre-shared key authentication using id type ID_IPV4_ADDR
ISAKMP-PAK: (1005):sending packet to 192.168.0.8 my_port 4500 peer_port 4500 (I) MM_KEY_EXCH
ISAKMP: (1005):Old State = IKE_I_MM4 New State = IKE_I_MM5
ISAKMP-PAK: (1005):received packet from 192.168.0.8 dport 500 sport 500 Global (I) MM_KEY_EXCH
ISAKMP: (1005):phase 1 packet is a duplicate of a previous packet.
ISAKMP: (1005):retransmitting due to retransmit phase 1
ISAKMP: (1005):retransmitting phase 1 MM_KEY_EXCH...
ISAKMP: (1005):: incrementing error counter on sa, attempt 1 of 5: retransmit phase 1
ISAKMP-PAK: (1005):sending packet to 192.168.0.8 my_port 4500 peer_port 4500 (I) MM_KEY_EXCH
ISAKMP-PAK: (1005):received packet from 192.168.0.8 dport 500 sport 500 Global (I) MM_KEY_EXCH
ISAKMP: (1005):phase 1 packet is a duplicate of a previous packet.
ISAKMP: (1005):retransmitting due to retransmit phase 1
```

A site-to-site tunnel between two sites is not coming up. Based on the debugs, what is the cause of this issue?

- A. An authentication failure occurs on the remote peer.
- B. A certificate fragmentation issue occurs between both sides.
- C. UDP 4500 traffic from the peer does not reach the router.
- D. An authentication failure occurs on the router.

**Answer:** C

#### NEW QUESTION 30

What are two functions of ECDH and ECDSA? (Choose two.)

- A. nonrepudiation
- B. revocation
- C. digital signature
- D. key exchange
- E. encryption

**Answer:** CD

#### Explanation:

Reference: [https://tools.cisco.com/security/center/resources/next\\_generation\\_cryptography](https://tools.cisco.com/security/center/resources/next_generation_cryptography)

#### NEW QUESTION 32

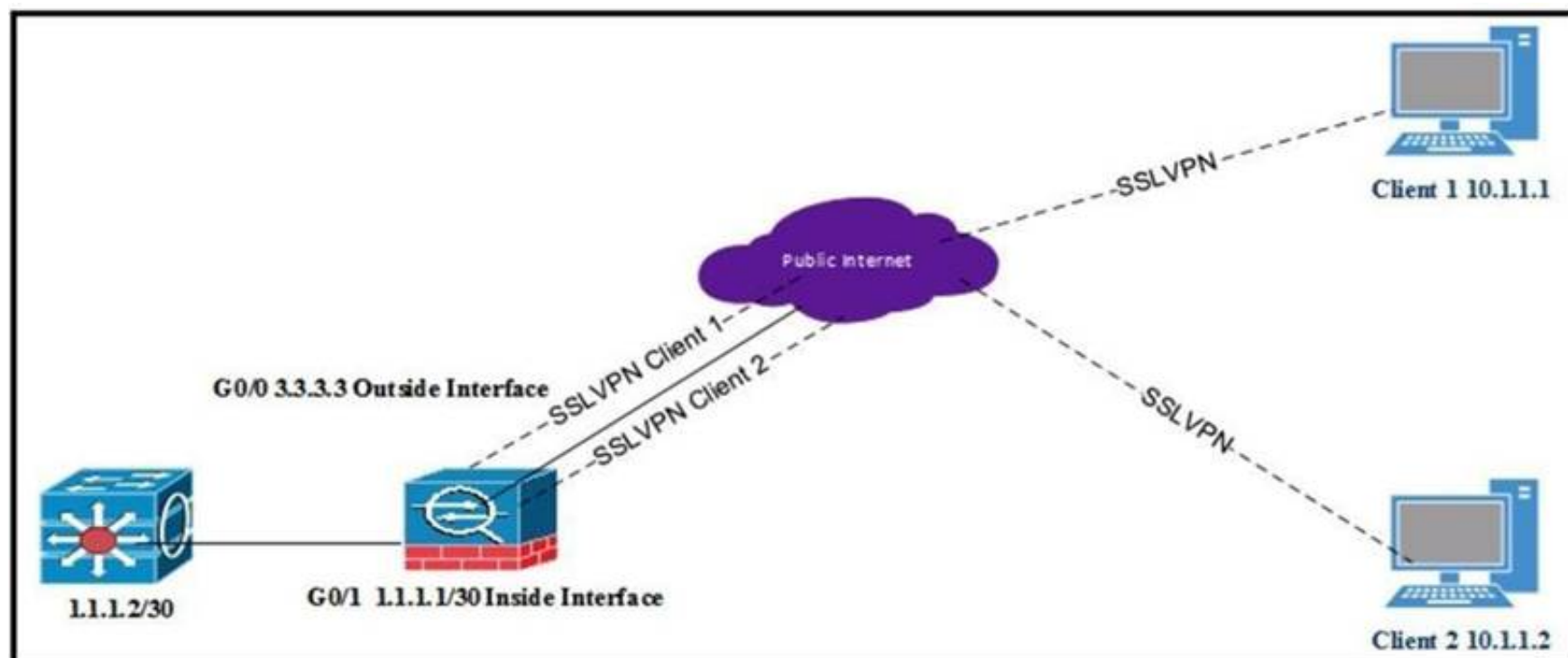
Which two commands help determine why the NHRP registration process is not being completed even after the IPsec tunnel is up? (Choose two.)

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

**Answer:** AD

#### NEW QUESTION 35

Refer to the exhibit.



All internal clients behind the ASA are port address translated to the public outside interface that has an IP address of 3.3.3.3. Client 1 and client 2 have established successful SSL VPN connections to the ASA. What must be implemented so that "3.3.3.3" is returned from a browser search on the IP address?

- A. Same-security-traffic permit inter-interface under Group Policy
- B. Exclude Network List Below under Group Policy
- C. Tunnel All Networks under Group Policy
- D. Tunnel Network List Below under Group Policy

**Answer:** D

#### NEW QUESTION 38

Cisco AnyConnect clients need to transfer large files over the VPN sessions. Which protocol provides the best throughput?

- A. SSL/TLS
- B. L2TP
- C. DTLS
- D. IPsec IKEv1

**Answer:** C

#### NEW QUESTION 43

Which parameter must match on all routers in a DMVPN Phase 3 cloud?

- A. GRE tunnel key
- B. NHRP network ID
- C. tunnel VRF
- D. EIGRP split-horizon setting

**Answer:** A

#### NEW QUESTION 48

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

**Answer:** C

#### Explanation:

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)

#### NEW QUESTION 53

Which benefit of FlexVPN is a limitation of DMVPN using IKEv1?

- A. GRE encapsulation allows for forwarding of non-IP traffic.
- B. IKE implementation can install routes in routing table.
- C. NHRP authentication provides enhanced security.
- D. Dynamic routing protocols can be configured.

**Answer:** B

#### NEW QUESTION 57

Where is split tunneling defined for IKEv2 remote access clients on a Cisco router?

- A. IKEv2 authorization policy
- B. Group Policy
- C. virtual template
- D. webvpn context

**Answer:** B

#### NEW QUESTION 61

Which technology is used to send multicast traffic over a site-to-site VPN?

- A. GRE over IPsec on IOS router
- B. GRE over IPsec on FTD
- C. IPsec tunnel on FTD
- D. GRE tunnel on ASA

**Answer:** B

#### NEW QUESTION 63

Refer to the exhibit.

```
ip access-list extended CCNP
 permit 192.168.0.10
 permit 192.168.0.11

webvpn gateway SSL_Gateway
 ip address 172.16.0.25 port 443
 ssl trustpoint AnyConnect_Cert
 inservice

webvpn context SSL_Context
 gateway SSL_Gateway

 ssl authenticate verify all
 inservice

policy group SSL_Policy
 functions svc-enabled
 svc address-pool "ACPool" netmask 255.255.255.0
 svc dns-server primary 192.168.0.100
 svc default-domain cisco.com
 default-group-policy SSL_Policy
```

Cisco AnyConnect must be set up on a router to allow users to access internal servers 192.168.0.10 and 192.168.0.11. All other traffic should go out of the client's local NIC. Which command accomplishes this configuration?

- A. svc split include 192.168.0.0 255.255.255.0
- B. svc split exclude 192.168.0.0 255.255.255.0
- C. svc split include acl CCNP
- D. svc split exclude acl CCNP

**Answer:** C

#### NEW QUESTION 68

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