

# Cisco

## Exam Questions 300-730

Implementing Secure Solutions with Virtual Private Networks (SVPN)



#### NEW QUESTION 1

A second set of traffic selectors is negotiated between two peers using IKEv2. Which IKEv2 packet will contain details of the exchange?

- A. IKEv2 IKE\_SA\_INIT
- B. IKEv2 INFORMATIONAL
- C. IKEv2 CREATE\_CHILD\_SA
- D. IKEv2 IKE\_AUTH

**Answer: B**

#### NEW QUESTION 2

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 3

Refer to the exhibit.

```
interface: Tunnell
  Crypto map tag: Tunnell-head-0, local addr 192.168.0.1

protected vrf: (none)
local ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
current_peer 192.168.0.2 port 500
  PERMIT, flags={origin_is_acl,}
  #pkts encaps: 0, #pkts encrypt: 0, #pkts digest: 0
  #pkts decaps: 0, #pkts decrypt: 0, #pkts verify: 0
  #pkts compressed: 0, #pkts decompressed: 0
  #pkts not compressed: 0, #pkts compr. failed: 0
  #pkts not decompressed: 0, #pkts decompress failed: 0
  #send errors 0, #recv errors 0

local crypto endpt.: 192.168.0.1, remote crypto endpt.: 192.168.0.2
plaintext mtu 1438, path mtu 1500, ip mtu 1500, ip mtu idb GigabitEthernet1
current outbound spi: 0x3D05D003(1023791107)
PFS (Y/N): N, DH group: none
```

Which two tunnel types produce the show crypto ipsec sa output seen in the exhibit? (Choose two.)

- A. crypto map
- B. DMVPN
- C. GRE
- D. FlexVPN
- E. VTI

**Answer: BE**

#### NEW QUESTION 4

Which two changes must be made in order to migrate from DMVPN Phase 2 to Phase 3 when EIGRP is configured? (Choose two.)

- A. Add NHRP shortcuts on the hub.
- B. Add NHRP redirects on the spoke.
- C. Disable EIGRP next-hop-self on the hub.
- D. Enable EIGRP next-hop-self on the hub.
- E. Add NHRP redirects on the hub.

**Answer: CE**

#### NEW QUESTION 5

Refer to the exhibit.

The screenshot shows the 'AnyConnect Profile Editor - VPN' window. A 'Server List Entry' dialog is open, displaying configuration options for a VPN profile. The 'Server' tab is selected. The 'Primary Server' section includes fields for 'Display Name (required)', 'FQDN or IP Address', 'User Group', and 'Group URL'. The 'Connection Information' section shows 'Primary Protocol' set to 'IPsec', the 'ASA gateway' checkbox checked, 'Auth Method During IKE Negotiation' set to 'EAP-AnyConnect', and an 'IKE Identity (IOS gateway only)' field. A 'Backup Servers' section at the bottom allows adding and managing multiple backup servers. The dialog has 'OK' and 'Cancel' buttons at the bottom.

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 6**

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 7

Which configuration construct must be used in a FlexVPN tunnel?

- A. EAP configuration
- B. multipoint GRE tunnel interface
- C. IKEv1 policy
- D. IKEv2 profile

**Answer:** D



#### NEW QUESTION 8

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 9

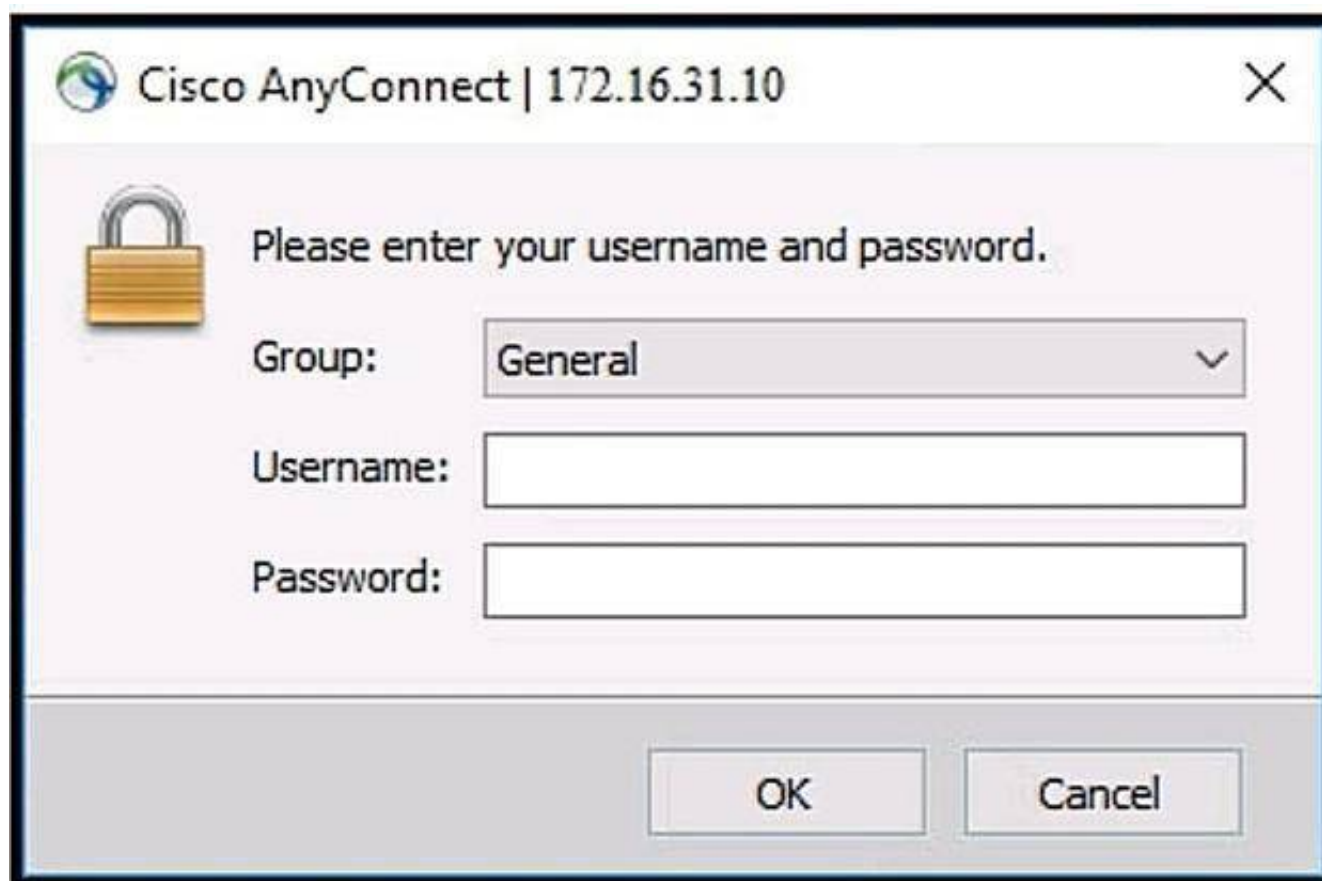
Under which section must a bookmark or URL list be configured on a Cisco ASA to be available for clientless SSLVPN users?

- 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.



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 10

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 13

Refer to the exhibit.

```
Spoke1#
  local ident (addr/mask/prot/port): (192.168.1.1/255.255.255.255/ 47/0)
  remote ident (addr/mask/prot/port): (192.168.2.1/255.255.255.255/ 47/0)
  #pkts encaps: 200, #pkts encrypt: 200
  #pkts decaps: 0, #pkts decrypt: 0,
local crypto endpt.: 192.168.1.1,
remote crypto endpt.: 192.168.2.1
  inbound esp sas:
  spi: 034B32CA36 (1261619766)
  outbound esp sas:
  spi: 0xD601918E (1760427022)

Spoke2#
  local ident (addr/mask/prot/port): (192.168.2.1/255.255.255.255/ 47/0)
  remote ident (addr/mask/prot/port): (192.168.1.1/255.255.255.255/ 47/0)
  #pkts encaps: 210, #pkts encrypt: 210,
  #pkts decaps: 200, #pkts decrypt: 200,
local crypto endpt.: 192.168.2.1,
remote crypto endpt.: 192.168.1.1
  inbound esp sas:
  spi: 03D601918E (1760427022)
  outbound esp sas:
  spi: 034BS2CA36 (1261619766)
```

An engineer is troubleshooting a new GRE over IPsec tunnel. The tunnel is established but the engineer cannot ping from spoke 1 to spoke 2. Which type of traffic is being blocked?

- A. ESP packets from spoke2 to spoke1
- B. ISAKMP packets from spoke2 to spoke1
- C. ESP packets from spoke1 to spoke2
- D. ISAKMP packets from spoke1 to spoke2

**Answer: A**

#### NEW QUESTION 17

Which command is used to troubleshoot an IPv6 FlexVPN spoke-to-hub connectivity failure?

- A. show crypto ikev2 sa
- B. show crypto isakmp sa
- C. show crypto gkm
- D. show crypto identity

**Answer:** A

#### Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/security/flexvpn/116413-configure-flexvpn-00.pdf>

#### NEW QUESTION 19

Refer to the exhibit.

```
tunnel-group IKEV2 type remote-access
tunnel-group IKEV2 general-attributes
  address-pool split
  default-group-policy GroupPolicy1
tunnel-group IKEV2 webvpn-attributes
  group-alias ikev2 enable

-----

-<HostEntry>
<HostName>ikev2</HostName>
<HostAddress>10.106.45.221</HostAddress>
<UserGroup>ikev2</UserGroup>
<PrimaryProtocol>IPsec</PrimaryProtocol>
</HostEntry>
```

The customer can establish a Cisco AnyConnect connection without using an XML profile. When the host "ikev2" is selected in the AnyConnect drop down, the connection fails. What is the cause of this issue?

- A. The HostName is incorrect.
- B. The IP address is incorrect.
- C. Primary protocol should be SSL.
- D. UserGroup must match connection profile.

**Answer:** D

#### Explanation:

Reference: <https://community.cisco.com/t5/security-documents/anyconnect-xml-settings/ta-p/3157891>

#### NEW QUESTION 20

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 22

Refer to the exhibit.

```
*Jul 16 20:21:25.317: ISAKMP (1004): received packet from 192.168.0.2 dport
      500 sport 500 Global (R) MM_KEY_EXCH
*Jul 16 20:21:25.317: ISAKMP: reserved not zero on ID payload!
*Jul 16 20:21:25.317: %CRYPTO-4-IKMP_BAD_MESSAGE: IKE message from 192.168.0.2
      failed its sanity check or is malformed
```

Which type of mismatch is causing the problem with the IPsec VPN tunnel?

- A. crypto access list
- B. Phase 1 policy
- C. transform set
- D. preshared key

**Answer: D**

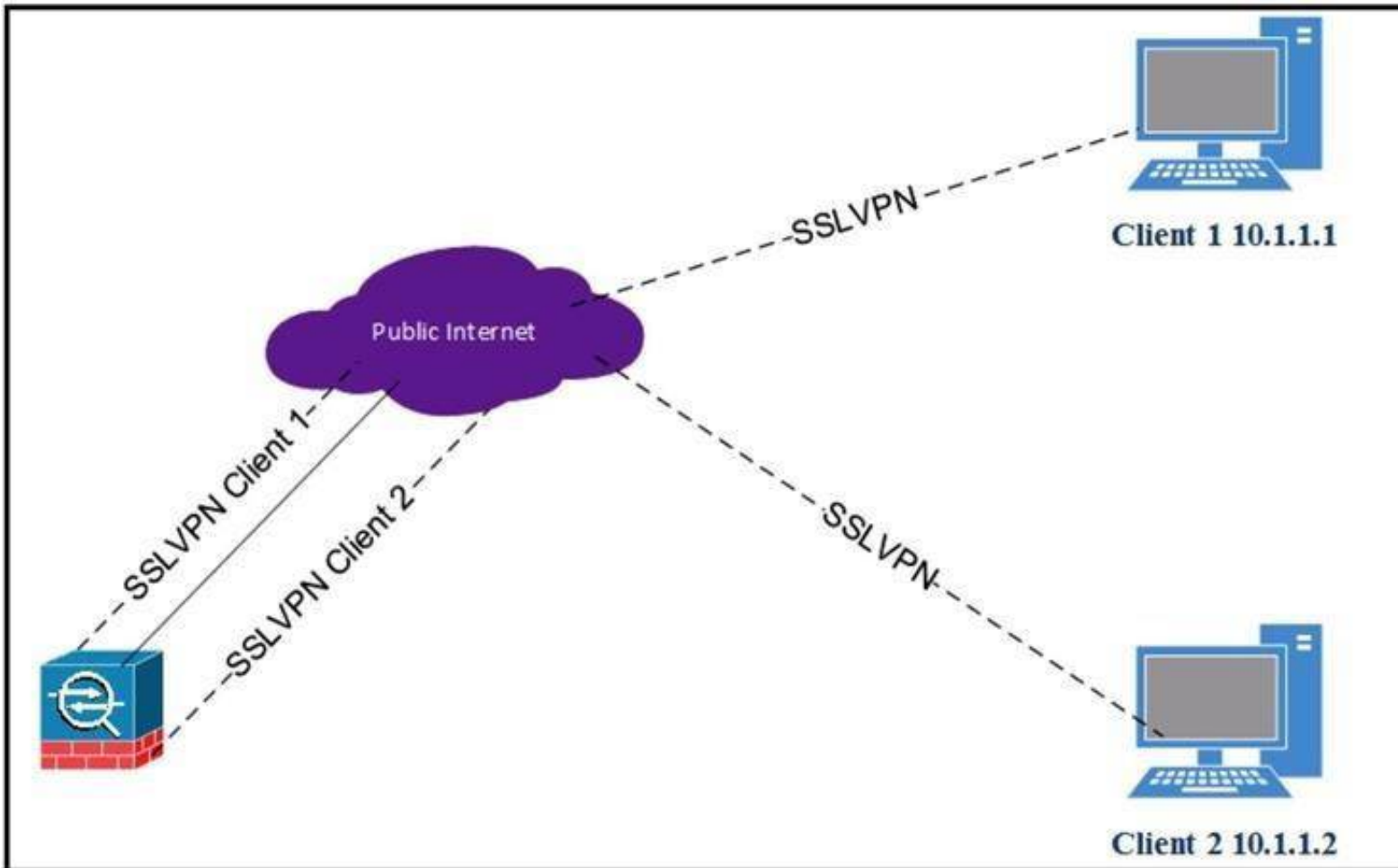
#### Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/security-vpn/ipsec-negotiation-ike-protocols/5409-ipsec-debug-00.html#ike>

#### NEW QUESTION 27

Refer to the exhibit.





Client 1 cannot communicate with client 2. Both clients are using Cisco AnyConnect and have established a successful SSL VPN connection to the hub ASA. Which command on the ASA is missing?

- A. dns-server value 10.1.1.2
- B. same-security-traffic permit intra-interface
- C. same-security-traffic permit inter-interface
- D. dns-server value 10.1.1.3

**Answer:** B

#### NEW QUESTION 32

Which redundancy protocol must be implemented for IPsec stateless failover to work?

- A. SSO
- B. GLBP
- C. HSRP
- D. VRRP

**Answer:** C

#### Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/security/vpn/ipsec-negotiation-ike-protocols/17826-ipsec-feat.html>

#### NEW QUESTION 36

Which technology works with IPsec stateful failover?

- A. GLBR
- B. HSRP
- C. GRE
- D. VRRP

**Answer:** B

#### Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/ios/12\\_2/12\\_2y/12\\_2yx11/feature/guide/ft\\_vpnha.html#wp1122512](https://www.cisco.com/c/en/us/td/docs/ios/12_2/12_2y/12_2yx11/feature/guide/ft_vpnha.html#wp1122512)

#### NEW QUESTION 38

What uses an Elliptic Curve key exchange algorithm?

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 39

Which two remote access VPN solutions support SSL? (Choose two.)

- A. FlexVPN
- B. clientless
- C. EZVPN
- D. L2TP
- E. Cisco AnyConnect

**Answer:** BE

#### NEW QUESTION 40

Refer to the exhibit.

```
crypto isakmp policy 10
  encr aes 256
  hash sha256
  authentication pre-share
  group 14

crypto isakmp key cisco address 0.0.0.0

crypto ipsec transform-set TS esp-aes 256 esp-sha256-hmac
  mode transport

crypto ipsec profile CCNP
  set transform-set TS

interface Tunnell
  ip address 10.0.0.1 255.255.255.0
  tunnel source GigabitEthernet1
  tunnel mode ipsec ipv4
  tunnel destination 172.18.10.2
  tunnel protection ipsec profile CCNP
```

Which VPN technology is used in the exhibit?

- A. DVTI
- B. VTI
- C. DMVPN
- D. GRE

**Answer:** B

#### Explanation:

Reference: [https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec\\_conn\\_vpnips/configuration/zZ-Archive/IPsec\\_Virtual\\_Tunnel\\_Interface.html#GUID-EB8C433B-2394-42B9-997F-B40803E58A91](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_vpnips/configuration/zZ-Archive/IPsec_Virtual_Tunnel_Interface.html#GUID-EB8C433B-2394-42B9-997F-B40803E58A91)

#### NEW QUESTION 45

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

What is a requirement for smart tunnels to function properly?

- A. Java or ActiveX must be enabled on the client machine.
- B. Applications must be UDP.
- C. Stateful failover must not be configured.
- D. The user on the client machine must have admin access.

**Answer:** A

#### Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/security/asa-5500-x-series-next-generation-firewalls/111007-smart-tunnel-asa-00.html>

#### NEW QUESTION 52

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 53**

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