



Cisco

Exam Questions 300-730

Implementing Secure Solutions with Virtual Private Networks (SVPN)

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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

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

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 4

Refer to the exhibit.

```
ASA-4-751015 Local:0.0.0.0:0 Remote:0.0.0.0:0 Username:Unknown SA request
rejected by CAC. Reason: IN-NEGOTIATION SA LIMIT REACHED
```

A customer cannot establish an IKEv2 site-to-site VPN tunnel between two Cisco ASA devices. Based on the syslog message, which action brings up the VPN tunnel?

- A. Reduce the maximum SA limit on the local Cisco ASA.
- B. Increase the maximum in-negotiation SA limit on the local Cisco ASA.
- C. Remove the maximum SA limit on the remote Cisco ASA.
- D. Correct the crypto access list on both Cisco ASA devices.

Answer: B

NEW QUESTION 5

Which method dynamically installs the network routes for remote tunnel endpoints?

- A. policy-based routing
- B. CEF
- C. reverse route injection
- D. route filtering

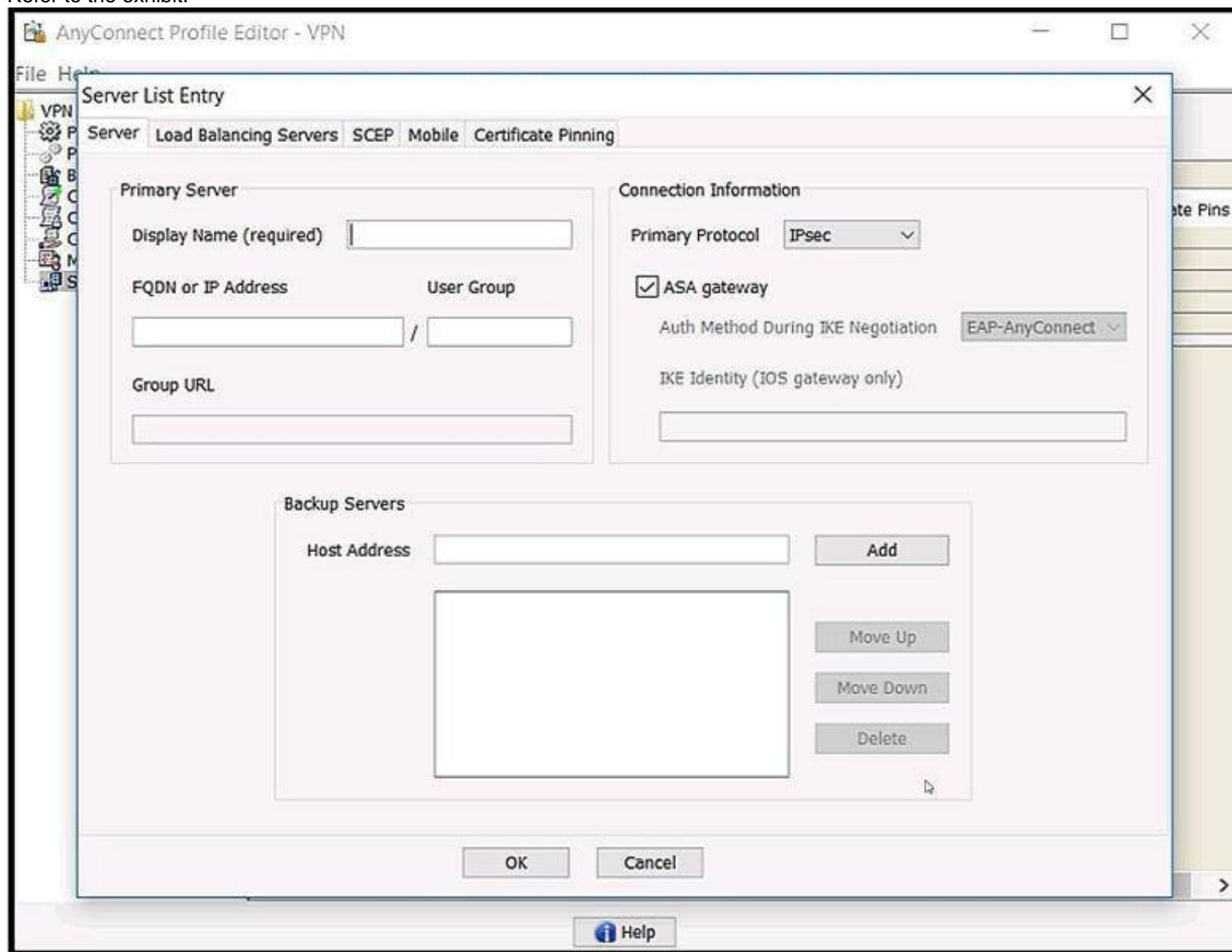
Answer: C

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/sec_conn_vpnnav/configuration/12-4t/sec-vpn-availability-12-4t-book/sec-rev-rte-inject.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

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

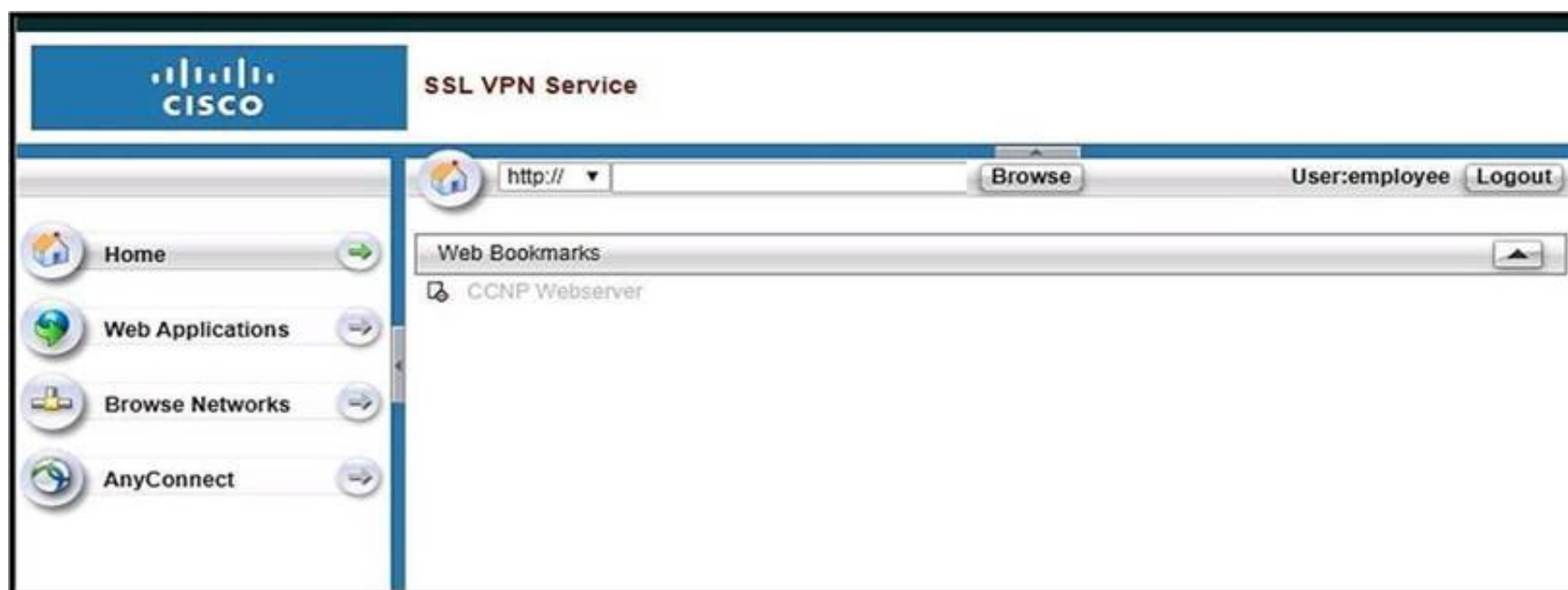
Which two features provide headend resiliency for Cisco AnyConnect clients? (Choose two.)

- A. AnyConnect Auto Reconnect
- B. AnyConnect Network Access Manager
- C. AnyConnect Backup Servers
- D. ASA failover
- E. AnyConnect Always On

Answer: CD

NEW QUESTION 9

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 10

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

NEW QUESTION 10

Which command automatically initiates a smart tunnel when a user logs in to the WebVPN portal page?

- A. auto-upgrade
- B. auto-connect
- C. auto-start
- D. auto-run

Answer: C

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/security/asa/asa91/configuration/vpn/asa_91_vpn_config/webvpn-configure-policy-group.html

NEW QUESTION 14

Refer to the exhibit.



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 16

Which IKE identity does an IOS/IOS-XE headend expect to receive if an IPsec Cisco AnyConnect client uses default settings?

- A. *\$SecureMobilityClient\$*
B. *\$AnyConnectClient\$*
C. *\$RemoteAccessVpnClient\$*
D. *\$DfltIkeIdentity\$*

Answer: B

Explanation:

Reference: <https://www.cisco.com/c/en/us/support/docs/security/flexvpn/200555-FlexVPN-AnyConnect-IKEv2-Remote-Access.html>

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

NEW QUESTION 24

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 28

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 33

Refer to the exhibit.

```
IKEv2:(SESSION ID = 17,SA ID = 1):Processing IKE_AUTH message
IKEv2:IPSec policy validate request sent for profile CloudOne with psh index 1.

IKEv2:(SESSION ID = 17,SA ID = 1):
IKEv2:(SA ID = 1):[IPsec -> IKEv2] Callback received for the validate proposal - FAILED.

IKEv2-ERROR:(SESSION ID = 17,SA ID = 1):: There was no IPSEC policy found for received TS
IKEv2:(SESSION ID = 17,SA ID = 1):Sending TS unacceptable notify
IKEv2:(SESSION ID = 17,SA ID = 1):Get my authentication method
IKEv2:(SESSION ID = 17,SA ID = 1):My authentication method is 'PSK'
IKEv2:(SESSION ID = 17,SA ID = 1):Get peer's preshared key for 68.72.250.251
IKEv2:(SESSION ID = 17,SA ID = 1):Generate my authentication data
IKEv2:(SESSION ID = 17,SA ID = 1):Use preshared key for id 68.72.250.250, key len 5
IKEv2:[IKEv2 -> Crypto Engine] Generate IKEv2 authentication data
IKEv2:[Crypto Engine -> IKEv2] IKEv2 authentication data generation PASSED
IKEv2:(SESSION ID = 17,SA ID = 1):Get my authentication method
IKEv2:(SESSION ID = 17,SA ID = 1):My authentication method is 'PSK'
IKEv2:(SESSION ID = 17,SA ID = 1):Generating IKE AUTH message
IKEv2:(SESSION ID = 17,SA ID = 1):Constructing IDr payload: '68.72.250.250' of type 'IPv4 address'
IKEv2:(SESSION ID = 17,SA ID = 1):Building packet for encryption.
Payload contents:
VID IDr AUTH NOTIFY(TS_UNACCEPTABLE)

IKEv2:(SESSION ID = 17,SA ID = 1):Sending Packet [To 68.72.250.251:500/From 68.72.250.250:500/VRF i0:f0]
Initiator SPI : 3D527B1D50DBEEF4 - Responder SPI : 8C693F77F2656636 Message id: 1
IKEv2 IKE_AUTH Exchange RESPONSE
Payload contents:
ENCR
```

Based on the debug output, which type of mismatch is preventing the VPN from coming up?

- A. interesting traffic
- B. lifetime

- C. preshared key
- D. PFS

Answer: B

Explanation:

If the responder's policy does not allow it to accept any part of the proposed Traffic Selectors, it responds with a TS_UNACCEPTABLE Notify message.

NEW QUESTION 34

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 38

Refer to the exhibit.

An SSL client is connecting to an ASA headend. The session fails with the message "Connection attempt has timed out. Please verify Internet connectivity."
Based on how the packet is processed, which phase is causing the failure?

- A. phase 9: rpf-check
- B. phase 5: NAT
- C. phase 4: ACCESS-LIST
- D. phase 3: UN-NAT

Answer: D

NEW QUESTION 41

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

NEW QUESTION 44

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

NEW QUESTION 48

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 52

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 57

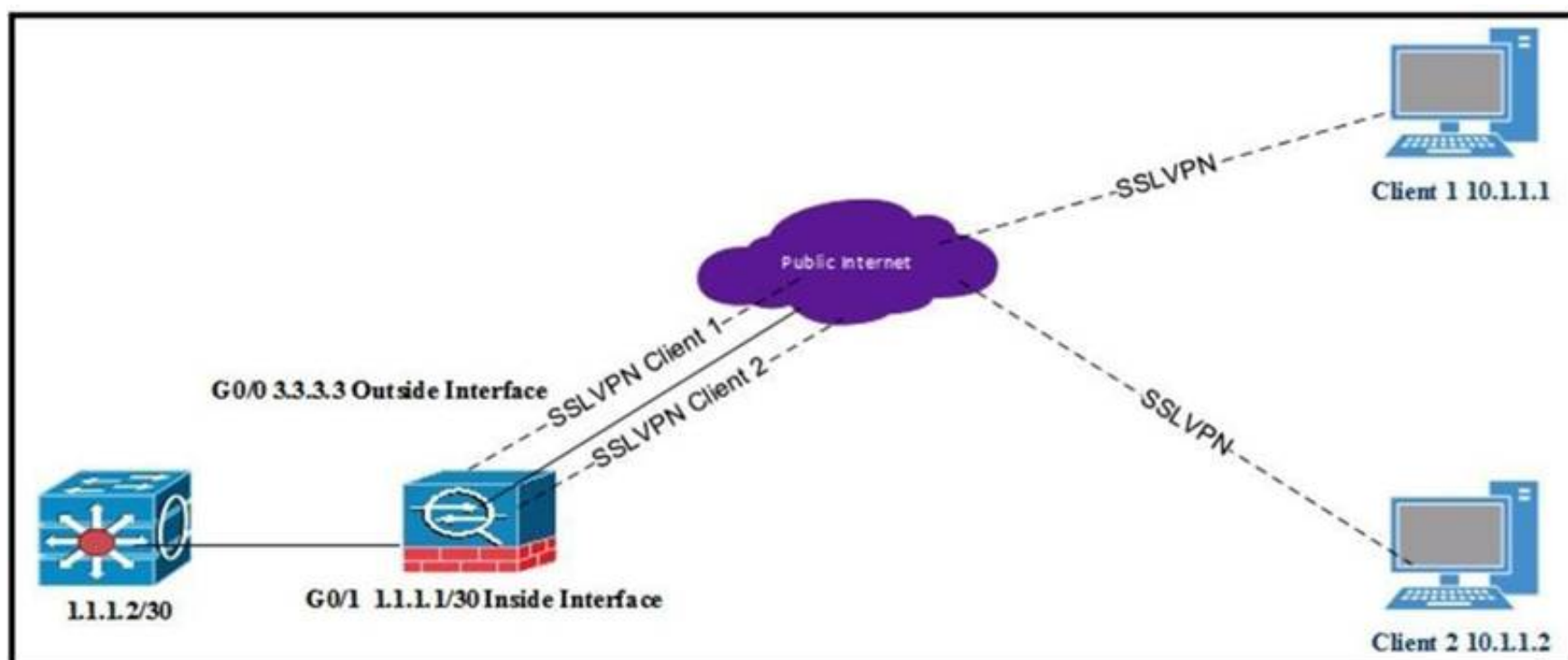
Which two commands help determine why the NHRP registration process is not being completed even after the IPsec tunnel is up? (Choose two.)

- 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 59

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 64

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

NEW QUESTION 66

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

NEW QUESTION 67

A Cisco ASA is configured in active/standby mode. What is needed to ensure that Cisco AnyConnect users can connect after a failover event?

- A. AnyConnect images must be uploaded to both failover ASA devices.
- B. The vpn-session-db must be cleared manually.
- C. Configure a backup server in the XML profile.
- D. AnyConnect client must point to the standby IP address.

Answer: A

Explanation:

Reference: https://www.cisco.com/c/en/us/td/docs/security/asa/asa90/configuration/guide/asa_90_cli_config/ha_active_standby.html

NEW QUESTION 72

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 74

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