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QUESTION 1

Refer to the exhibit. The network administrator is adding a new spoke, but the tunnel is not passing traffic. What could cause this issue?

```
Hub config :

crypto ipsec transform-set myset esp-3des esp-sha-hmac
!
crypto ipsec profile DMVPN
 set transform-set myset
!
interface Tunnel0
 ip address 172.16.1.1 255.255.255.0
 no ip redirects
 ip nhrp authentication DMVPN01
 ip nhrp map multicast dynamic
 ip nhrp network-id 100
 tunnel source Ethernet0/0
 tunnel mode gre multipoint
 tunnel protection ipsec profile DMVPN
!
interface Ethernet0/0
 ip address 209.165.200.234 255.255.255.248


Spoke 2 Config :

crypto ipsec transform-set myset esp-3des esp-sha-hmac
!
crypto ipsec profile DMVPN
 set transform-set myset
!
interface Tunnel0
 ip address 172.16.1.3 255.255.255.0
 no ip redirects
 ip nhrp authentication DMVPN1
 ip nhrp map 172.16.1.1 209.165.200.234
 ip nhrp map multicast 209.165.200.234
 ip nhrp network-id 200
 ip nhrp nhs 172.16.1.1
 tunnel source Ethernet0/0
 tunnel mode gre multipoint
 tunnel protection ipsec profile DMVPN

!
interface Ethernet0/0
 ip address 209.165.202.146  255.255.255.248

Hub debugs :

*Apr 25 19:32:30.867: NHRP: Receive Registration Request via Tunnel0 vrf 0, packet size: 107
*Apr 25 19:32:30.868: NHRP-ATTR: Sending error indication
```

A. DMVPN is a point-to-point tunnel, so there can be only one spoke.

B. There is no EIGRP configuration, and therefore the second tunnel is not working.

C. The NHRP authentication is failing.

D. The transform set must be in transport mode, which is a requirement for DMVPN.

E. The NHRP network ID is incorrect.

Correct Answer: C

http://www.cisco.com/c/en/us/td/docs/ios/12_4/ip_addr/configuration/guide/hadnhrp.html#wp1055049

QUESTION 2

Refer to the exhibit. What is the problem with the IKEv2 site-to-site VPN tunnel?

```
*Dec  5 20:49:53.785: IKEv2:(SA ID = 1070):Failed to verify the proposed
policies
*Dec  5 20:49:53.785: IKEv2:(SA ID = 1070):There was no IPSEC policy found for
received TS

*Dec  5 20:49:53.785: IKEv2:(SA ID = 1070):
*Dec  5 20:49:53.785: IKEv2:(SA ID = 1070):SM Trace-> SA:
I_SPI=527FCACA776C4724 R_SPI=EFBD7D296CCB08CA (R) MsgID = 00000001 CurState:
R_VERIFY_AUTH Event: EV_TS_UNACCEPT
*Dec  5 20:49:53.785: IKEv2:(SA ID = 1070):Sending TS unacceptable notify
```

A. incorrect PSK

B. crypto access list mismatch

C. incorrect tunnel group

D. crypto policy mismatch

E. incorrect certificate

Correct Answer: B

QUESTION 3

Which functionality is provided by L2TPv3 over FlexVPN?

A. the extension of a Layer 2 domain across the FlexVPN

B. the extension of a Layer 3 domain across the FlexVPN

C. secure communication between servers on the FlexVPN

D. a secure backdoor for remote access users through the FlexVPN

Correct Answer: A

QUESTION 4

Consider this scenario. When users attempt to connect via a Cisco AnyConnect VPN session, the certificate has changed and the connection fails. What is a possible cause of the connection failure?

A. An invalid modulus was used to generate the initial key.

B. The VPN is using an expired certificate.

C. The Cisco ASA appliance was reloaded.

D. The Trusted Root Store is configured incorrectly.

Correct Answer: C

QUESTION 5

Refer to the Exhibit. Why is the tunnel not establishing?


```
Router#show crypto isakmp sa

IPv4 Crypto ISAKMP SA
Dst              src              state            conn-id    slot    status
10.10.10.1       172.16.1.1       MM_NO_STATE      0          0       ACTIVE
10.10.10.1       172.16.1.1       MM_NO_STATE      0          0       ACTIVE (deleted)
172.17.0.5       172.16.1.1       MM_NO_STATE      0          0       ACTIVE
172.17.0.5       172.16.1.1       MM_NO_STATE      0          0       ACTIVE (deleted)

Router#debug crypto isakmp

01:12:45.250:  ISAKMP:(0):Old State = IKE_READY
                       New State = IKE_I_MM1
01:12:45.250:  ISAKMP:(0): beginning Main Mode exchange
01:12:45.250:  ISAKMP:(0): sending packet to 10.10.10.1
                       my_port 500 peer_port 500 (I) MM_NO_STATE
01:12:45.250:  ISAKMP:(0):Sending an IKE IPv4 Packet.
01:12:55.250:  ISAKMP:(0): retransmitting phase 1 MM_NO_STATE...
01:12:55.250:  ISAKMP (0:0): incrementing error counter on sa,
                       attempt 1 of 5: retransmit phase 1
01:12:55.250:  ISAKMP:(0): retransmitting phase 1 MM_NO_STATE
01:12:55.250:  ISAKMP:(0): sending packet to 10.10.10.1
                       my_port 500 peer_port 500 (I) MM_NO_STATE
01:12:55.250:  ISAKMP:(0):Sending an IKE IPv4 Packet.
01:13:04.250:  ISAKMP:(0): retransmitting phase 1 MM_NO_STATE...
01:13:04.250:  ISAKMP:(0): retransmitting phase 1 MM_NO_STATE...
01:13:04.250:  ISAKMP (0:0): incrementing error counter on sa,
                       attempt 2 of 5: retransmit phase 1
01:13:04.250:  ISAKMP:(0): retransmitting phase 1 MM_NO_STATE
```

A. Lifetimes are misconfigured.

B. SAKMP packets are blocked.

C. NAT statements are missing.

D. GRE is not working correctly.

Correct Answer: B

QUESTION 6

An engineer has integrated a new DMVPN to link remote offices across the internet using Cisco IOS routers. When connecting to remote sites, pings and voice data appear to flow properly and all tunnel stats seem to show that are up. However, when trying to connect to a remote server using RDP, the connection fails. Which action resolves this issue?

A. Change DMVPN timeout values.

B. Adjust the MTU size within the routers.

C. Replace certificate on the RDP server.

D. Add RDP port to the extended ACL.

Correct Answer: B

Answers A and C do not make sense.

Answer D is valid only for split tunneling...if we want to pass the RDP traffic off tunnel. The ACL configured to establish the DMVPN tunnel only need udp 500/4500 and esp (50). Answer B should be correct because voice traffic (UDP) and

ping use smaller MTU size and will not be fragmented...and thus will work. RDP uses TCP / 3389 and isn\\'t fault tolerant.

QUESTION 7

Which VPN solution is best for a collection of branch offices connected by MPLS that frequenty make VoIP calls between branches?

A. GETVPN

B. Cisco AnyConnect

C. site-to-site

D. DMVPN

Correct Answer: A

QUESTION 8

Refer to the exhibit. Given the partial configuration shown, which two statements are correct? (Choose two.)

crypto ipsec transform-set MY_TRANSFORM esp-aes 128 esp-sha-hmac!

crypto ipsec profile MYPROFILE

set transform-set MY_TRANSFORM ! interface Tunnel0

 ip unnumbered GigabitEthernet1/1

tunnel source GigabitEthernet1/1

tunnel destination 192.168.2.200

 tunnel mode ipsec ipv4

tunnel protection ipsec profile MYPROFILE! ip route 10.1.2.0 255.255.255.0 Tunnel0

A. The tunnel will use the routing protocol configured for GigabitEthemet 1/1 for all tunnel communication with the peer.

B. The IP route statement to reach the remote network behind the DMVPN peer is incorrect, it should be ip route 192.168.2.0 255.255.255.0 tunnel 0.

C. This is an example of a static point-to-point VTI tunnel.

D. The tunnel will use esp-sha-hmac encryption in ESP tunnel mode.

E. The tunnel will use 128-bit AES encryption in ESP tunnel mode.

Correct Answer: CE

QUESTION 9

Where is split-tunneling defined for remote access clients on an ASA?

A. Group-policy

B. Tunnel-group

C. Crypto-map

D. Web-VPN Portal

E. ISAKMP client

Correct Answer: A

QUESTION 10

Which option is one of the difference between FlexVPN and DMVPN?

A. flexvpn uses ikev2 and dmvpn can use ikev1 or ikev2

B. dmvpn can use ikev1 and ikev2 where flexvpn only uses ikev1

C. flexvpn can use ikev1 and ikev2 where dmvpn uses only ikev2

D. dmvp uses ikev1 and flexvpn use ikev3

Correct Answer: A

QUESTION 11

Which three types of SSO functionality are available on the Cisco ASA without any external SSO servers? (Choose three.)

A. SAML

B. HTTP POST

C. HTTP Basic

D. NTLM

E. Kerberos

F. OAuth 2.0

Correct Answer: BCD

QUESTION 12

Which VPN type can be used to provide secure remote access from public internet cafes and airport kiosks?

A. site-to-site

B. business-to-business

C. Clientless SSL

D. DMVPN

Correct Answer: C

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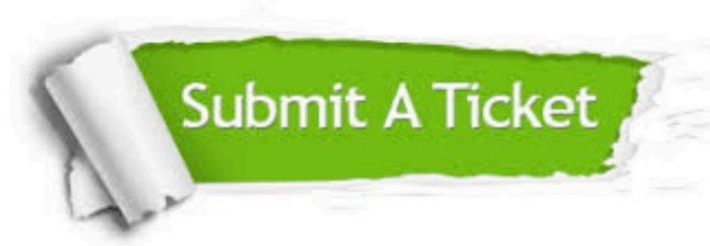
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