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Troubleshooting and Maintaining Cisco IP Networks

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QUESTION 1

which two reason might a GRE tunnel interface enter an up/down state?

A. the tunnel mode is defined as transport

B. the route to the destination is through the tunnel itself

C. keepalives are disabled on the interface

D. the tunnel source is using a loopback interface

E. the tunnel source interface is down

Correct Answer: BE

QUESTION 2

Which of the following commands will remove all dynamic entries for a router\\'s NAT table?

A. clear nat translations

B. clear ip nat translations*

C. clear ip nat statistics

D. clear ip nat transactions *

E. clear ip nat translations

F. clear ip nat translations all

Correct Answer: B

QUESTION 3

Which statements about uRPF are true? (Choose two)

A. CEF should be enabled

B. CEF should be disabled

C. Packet with source 0.0.0.0 destination 255.255.255.255 will be permited

D. Packet with source 0.0.0.0 destination 255.255.255.255 will be denied

Correct Answer: AC

QUESTION 4

The implementations group has been using the test bed to do a 'proof-of-concept' that requires both Client 1 and Client 2 to access the WEB Server at 209.65.200.241.

After several changes to the network addressing, routing scheme, DHCP services, NTP services, layer 2 connectivity, FHRP services, and device security, a trouble ticket has been opened indicating that Client 1 cannot ping the

209.65.200.241 address.

Use the supported commands to isolated the cause of this fault and answer the following questions.

On which device is the fault condition located?

A. R1

B. R2

C. R3

D. R4

E. DSW1

F. DSW2

G. ASW1

H. ASW2

Correct Answer: E

On DSW1, VALN ACL, Need to delete the VLAN access-map test1 whose action is to drop access-list 10; specifically 10.2.1.3

Since Client1 is not able to ping DSW1 we can deduce that the problem lies with DSW1. Upon closer examination we see that the VLAN filter list being applied to this device is filtering out the network that DSW is on.

QUESTION 5

What IP header option fields can you modify in an extended ping? (Choose three.)

A. Value

B. Strict

C. Record

D. Timestamp

E. Timeout

Correct Answer: BCD

QUESTION 6

A user is able to log into the switch but cannot enable . What might be the reason

A. change authorization level

B. change accounting

C. change authentication

D. https://www.Certbus.com/300-135.html

Correct Answer: A

QUESTION 7

Drag the command from the left onto the corresponding outcome on the right.

Select and Place:

show crypto isakmp sa detail	routing adjacency is established
show crypto ipsec sa peer	verify that the spoke router is ending udp
show ip eigrp neighbors	lifetime and the time for next renegotiation
debug crypto isakmp	traffic flows in only one direction

Correct Answer:

	show ip eigrp neighbors
	show crypto ipsec sa peer
	debug crypto isakmp
	show crypto isakmp sa detail

QUESTION 8

Refer to the exhibit. user 1 cannot establish a connection to user 2.what is the root cause of this issue?
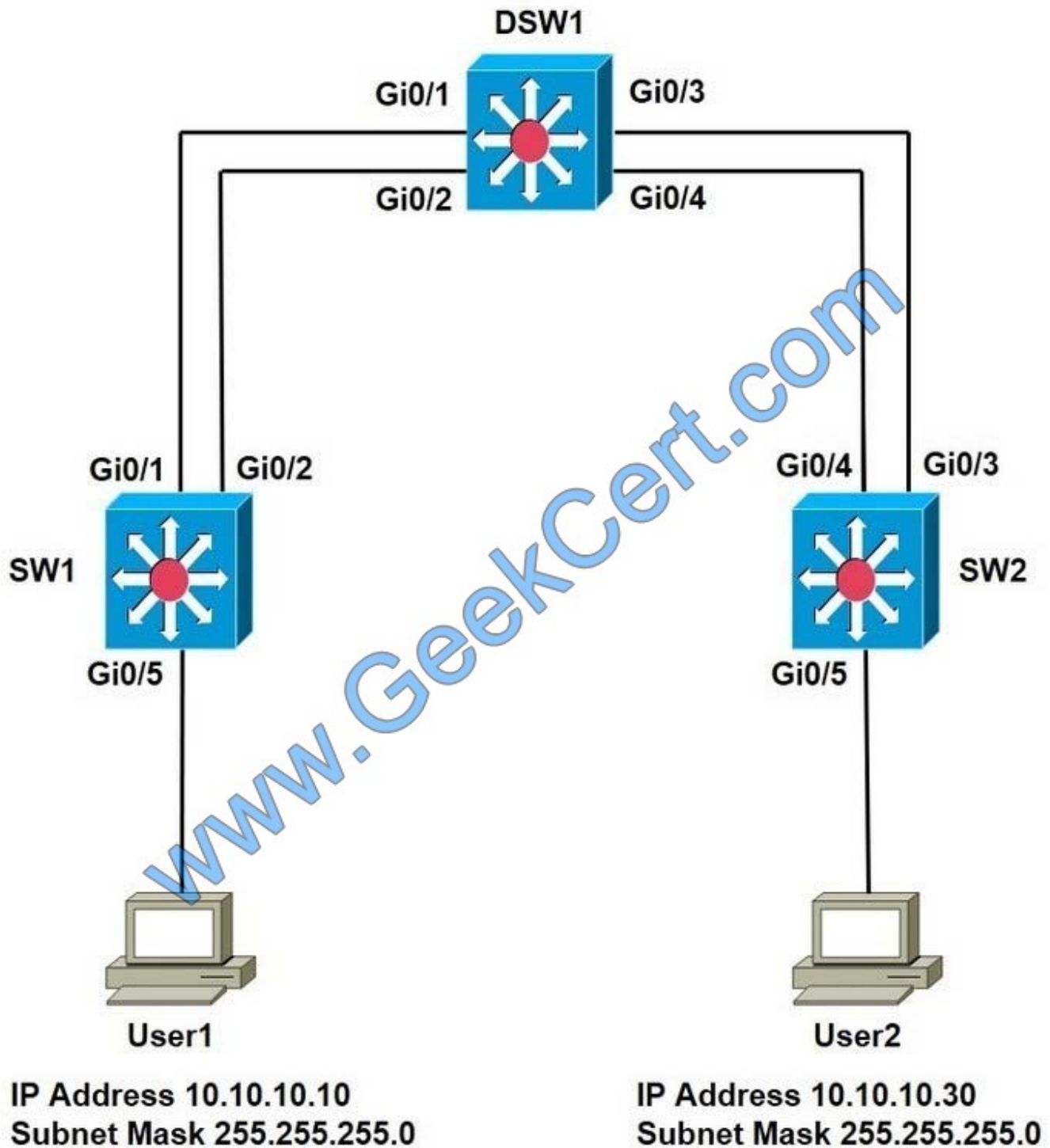
A. DSW1 is not configured for IP routing

B. SW1 Gi0/1 and Gi0/2 are not in an Etherchannel

C. user1 and user2 are not in the same subnet

D. AW1 Gi0/5 and SW2 Gi0/5 are in different VLANs

Correct Answer: D

QUESTION 9

Which statement indicates a cause for Tunnel0\\'s connection failure?

A. The tunnel source interface is in an up/down state and the tunnel destination is recursively routing as a result.

B. The tunnel destination interface is flapping, which causes the tunnel to go up and down.

C. The tunnel is configured with the wrong encapsulation.

D. The tunnel destination is intermittently reachable via multiple routing protocols

Correct Answer: D

QUESTION 10

---Output from config--service password-encryption ! line console password a123124 ! line vty 0 4 password asdfasf12 login transport input telnet ! What will happen if client A will telnet to this device.

A. Telnet will be successful

B. Telnet will fail because of missing user database

C. Telnet will fail because of missing aaa new model

D. Telnet will fail because only ssh is allowed

Correct Answer: A

QUESTION 11

A syslog message from a router with a GRE tunnel reads: "%TUN-5-RECURDOWN: Tunnel0 temporarily disabled due to recursive routing". Which scenario would cause this error?

A. The remote router\\'s tunnel interface is not participating in the routing process.

B. The local tunnel mode does not match the tunnel mode configured on the remote router.

C. The shutdown command has been issued on the source physical interface.

D. The installed route to the tunnel destination has been learned via the tunnel interface.

Correct Answer: D

QUESTION 12

Securing control plane on R1 connected via SSH to the network 10.10.0.0/16. You should choose right answers and place in right configuring order.

Select and Place:

access-list X permit tcp 10.10.0.0/16 eq 22 any estab access-list X permit tcp 10.10.0.0/16 any eq 22	
access-list X deny tcp 10.10.0.0/16 any eq 23	
class-map match-all SSH match access-group X match 200	
class-map match-all SSH match access-group X	
Policy Y Class SSH	
Control plane service-policy input Y	

Correct Answer:

	access-list X permit tcp 10.10.0.0/16 eq 22 any estab access-list X permit tcp 10.10.0.0/16 any eq 22
access-list X deny tcp 10.10.0.0/16 any eq 23	class-map match-all SSH match access-group X
class-map match-all SSH match access-group X match 200	Policy Y Class SSH
	Control plane service-policy input Y

QUESTION 13

What is common protocol for ping and traceroute

A. ICMP

B. PIM

C. IGMP

D. IP

Correct Answer: A

QUESTION 14

You have 2 NTP servers in your network - 10.1.1.1 and 10.1.1.2. You want to configure a Cisco router to use 10.1.1.2 as its NTP server before falling back to 10.1.1.1. Which commands will you use to configure the router?

A. ntp server 10.1.1.1 ntp server 10.1.1.2

B. ntp server 10.1.1.1 ntp server 10.1.1.2 primary

C. ntp server 10.1.1.1 ntp server 10.1.1.2 prefer

D. ntp server 10.1.1.1 fallback ntp server 10.1.1.2

Correct Answer: C

Preferred server A router can be configured to prefer an NTP source over another. A preferred server\\'s responses are discarded only if they vary dramatically from the other time sources. Otherwise, the preferred server is used for synchronization without consideration of the other time sources. Preferred servers are usually specified when they are known to be extremely accurate. To specify a preferred server, use the prefer keyword appended to the ntp server command. The following example tells the router to prefer TimeServerOne over TimeServerTwo: Router#config terminal Enter configuration commands, one per line. End with CNTL/Z. Router(config)#ntp server TimeServerOne prefer Router(config)#ntp server TimeServerTwo Router(config)#^Z Reference: Hardening Cisco Routers By Thomas Akin February 2002 0-596-00166-5,Chapter 10, NTP.

QUESTION 15

```
R1# debug migrp packet
     (UPDATE, REQUEST, QUERY, REPLY, HELOO, UNKNOWN, PROBE, ACK, STUB, SIAQUERY, SIAREPLY)

R1#
EIGRP: Lost Peer: Total 1 (0/0/0/0/0)
EIGRP: Received HELLO on Gi1.146 - paklen 20 nbr 10.1.146.6
   AS 100, Flags 0x0: (NULL), Seq 0/0 interfaceQ 0/0
EIGRP: Add Peer: Total 1 (1/0/0/0/0)
       K-value mismatch
EIGRP: Sending TIDLIST on GigabitEthernet1.146 - 1 items
EIGRP: Sending HELLO on Gi1.146 - paklen 30
   AS 100, Flags 0x0 : (NULL), Seq 0/0 interfaceQ 0/0 iidbQ un/rely /0
%DUAL-5-NBRCHANGE: EIGRP_IPv4 100: Neighbor 10.1.146.6 (GigabitEthernet1.146) is down: K-value mismatch
R1#
EIGRP: Lost Peer: Total 1 (0/0/0/0/0)
EIGRP: Sending HELLO on Gi1.13 - paklen 20
   AS 100, Flags 0x0: (NULL), Seq 0/0 interfaceQ 0/0 iidbQ un/rely 0/0
R1#
EIGRP: Gi1.13: ignored packet from 10.1.13.3, opcode = 5 (authentication off or key-chain missing)
R1#
EIGRP: Received HELLO on Gi1.146 - paklen 20 nbr 10.1.146.4
   AS 100, Flags 0x0: (NULL), Seq 0/0 interfaceQ 0/0
```

Refer to the exhibit. When troubleshooting an adjacency issue on router R1, you generated the given debug output. Which two values are mismatched between R1 and its neighbor? (Choose two.)

A. hello timer settings

B. metric calculation mechanisms

C. authentication parameters

D. autonomous system numbers

E. hold timer settings

Correct Answer: BD

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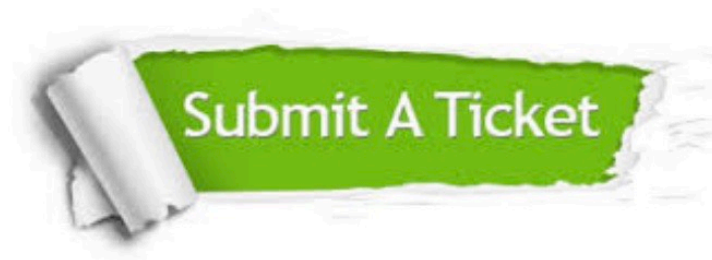
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