Vendor: Cisco

Exam Code:300-135

Exam Name: Troubleshooting and Maintaining Cisco IP Networks

Version: Demo

QUESTION 1

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 schemes, DHCP services, NTP services, layer 2 connectivity, FHRP services, and device security, a trouble ticket has been opened DSW1 will not become the active router for HSRP

group 10.

Use the supported commands to isolated the cause of this fault and answer the following questions. The fault condition is related to which technology?

A. NTP

B. HSRP

C. IP DHCP Helper

D. IPv4 EIGRP Routing

E. IPv6 RIP Routing

F. IPv4 layer 3 security

G. Switch-to-Switch Connectivity

H. Loop Prevention

I. Access Vlans

J. Port Security

K. VLAN ACL/Port ACL

L. Switch Virtual Interface

Correct Answer: B

On DSW1, related to HSRP, under VLAN 10 change the given track 1 command to instead use the track 10 command. The problem in this case is that DSW1 will not become the active standby router, which is an HSRP problem.

QUESTION 2

Which statement is true about an IPsec/GRE tunnel?

A. The GRE tunnel source and destination addresses are specified within the IPsec transform set.

B. An IPsec/GRE tunnel must use IPsec tunnel mode.

C. GRE encapsulation occurs before the IPsec encryption process.

D. Crypto map ACL is not needed to match which traffic will be protected.

Correct Answer: C

QUESTION 3

In what situation would the command ip helper-address be required? (Choose the best answer.)

A. Only when there is a duplicate IP address caused by a combination of static and dynamic IP address allocations

B. On each router that exists between the client and the server

C. Only when a router separates the client from the server

D. Only if the DHCP sever issues a DHCPNAK to the initial request

E. Only when the client is on the same subnet as the server

F. Only when the DHCP pool is out of IP addresses

Correct Answer: C

QUESTION 4

A network administrator is troubleshooting an EIGRP connection between RouterA, IP address 10.1.2.1, and RouterB, IP address 10.1.2.2. Given the debug output on RouterA, which two statements are true? (Choose two.)


```
RouterA# debug eigrp packets
...
01:39:13: EIGRP: Received HELLO on Serial0/0 nbr 10.1.2.2
01:39:13: AS 100, Flags 0x0, Seq 0/0 idbQ 0/0 iidbQ un/rely 0/0 peerQ un/rely 0/0
01:39:13:        K-value mismatch
```

A. RouterA received a hello packet with mismatched autonomous system numbers.

B. RouterA received a hello packet with mismatched hello timers.

C. RouterA received a hello packet with mismatched authentication parameters.

D. RouterA received a hello packet with mismatched metric-calculation mechanisms.

E. RouterA will form an adjacency with RouterB.

F. RouterA will not form an adjacency with RouterB.

Correct Answer: DF

QUESTION 5

Refer to the shown below.

%LINK-3-UPDOWN: Interface Serial0/0, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up

What statement is correct regarding the output shown in the graphic?

A. These two log messages will not have a severity level. They are not errors but are just informational messages.

B. The first log message is categorized as a warning message.

C. These messages regarding interface status are normal output and will always be displayed when you exit config mode.

D. The first log message is an error message with a severity level of 3.

E. The second message would be shown if the logging console warning command had been issued.

Correct Answer: D

QUESTION 6

On which two topologies can you deploy a point-to-point GRE over IPsec design? (Choose two.)

A. bus

B. partial-mesh

C. hub-and-spoke

D. ring

E. tree

Correct Answer: BC

In a p2p GRE over IPsec design, the following three topologies can be implemented: Hub-and-spoke Partial mesh Full mesh

Reference: https://www.cisco.com/c/en/us/td/docs/solutions/Enterprise/WAN_and_MAN/P2P_GRE_IPSec/P2P_GRE/1_p2pGRE_Phase2.html

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QUESTION 7

What will be the result if a user tries to connect to line vty 0 using the username Cisco and password Cisco123 while the TACACS server is unreachable?

```
aaa new-model
!
!
aaa authentication login default group tacacs+local-case line
aaa authentication login LOCAL-VTY line
!
!
username cisco password 0 Cisco 123
!
line vty 0 4
password CiscoCisco
login authentication LOCAL-VTY
transport input all
```

A. The user will be authenticated after the TACACS server fallback timer expires

B. The user will not be authenticated because the username is incorrect

C. The user will not be authenticated because the TACACS server is untrachable

D. The user will not be authenticated bacause the password is incorrect

Correct Answer: D

QUESTION 8

What are two approaches to maintaining a network?(Choose two.)

A. PPDIOO

B. structured

C. bottoms up

D. interrupt-driven

Correct Answer: BD

QUESTION 9

A question with an image, regardless tunnel 1018 went down. (Question refering to an exhibit ?something with PIM, tunnel flapping and neighboring get rejected, regardless Tunnel 1018 went down.)

A. Tunnel interface is misconfigured

B. PIM neighbor is misconfigured

C. Route neighbor 10.111.254.213 was removed.

D. Route flapping and instability.

E. Tunnel destination using tunnel itself.

Correct Answer: AC

QUESTION 10

Which protocol does mGRE use to send packets?

A. DMVPN

B. NHRP

C. OSPF

D. IPsec

Correct Answer: B

QUESTION 11

Which of the following commands provides data plane information required to forward a packet to a specific ip address?

A. sh ip route

B. sh ip cef

C. sh adjacency

D. sh ip route

E. sh ip adjacency

F. sh ip cef

Correct Answer: B

QUESTION 12

Which command enables authenticated login if a TACACS+ failure occurs?

A. aaa authentication login test group local tacacs+

B. aaa authentication login test group tacacs+ local

C. aaa authentication login test group radius local

D. aaa authentication ppp dialins group tacacs+ local

Correct Answer: B

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