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Troubleshooting and Maintaining Cisco IP Networks

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QUESTION 1

Regarding extended ping, why ping is failed (refer to exhibit)?

A. df bit is set (should be unset, mtu issue)

B. https://www.certbus.com/300-135.html

C. https://www.certbus.com/300-135.html

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

Correct Answer: A

QUESTION 2


```
current configuration : 1900 bytes
!
hostname Core-Switch
!
username admin privilege 15 secret 5 $1$CbWm$UME5RHxuX7QGYJTtdVmkN.
username NOC_Access privilege 15 secret $1$jlVM$h4WwRd/QXkGcM/49v6ZVw.
!
ip access-list extended Switch_Access
    permit tcp 10.1.1.0.0.0.0.255 host 192.168.28.133 eq telnet
    permit tcp host 77.232.115.149 host 192.168.28.133 eq telnet time-range NOC_Access
!
line vty 0 4
    access-class Switch_Access in
    login local
!
time-range NOC_Access
    periodic daily 0:00 to 6:00
    periodic daily 6:00 to 11:59
!
end
```

Refer to the exhibit. The NOC team uses a source address of 77.232.115.149 and requires access only during the hours of 6:00PM through 6:00AM. The configuration is implemented as shown, but the NOC is unable to access the network until midnight. Which configuration is required to fix the problem?

A. time-range Switch_Access periodic daily 18:01 to 5:59

B. time-range NOC_Access periodic daily 0:00 to 6:00 periodic daily 18:00 to 23:59

C. time-range NOC_Access periodic daily 18:01 to 5:59

D. time-range Switch_Access periodic daily 0:00 to 6:00 periodic daily 18:00 to 23:59

Correct Answer: C

QUESTION 3

The implementation group has been using the test bed to do an IPv6 \\'proof-ofconcept1.

After several changes to the network addressing and routing schemes, a trouble ticket has been opened indicating that the loopback address on R1 (2026::111:1) is not able to ping the loopback address on DSW2 (2026::102:1).

Use the supported commands to isolate the cause of this fault and answer the following question.

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: D

Start to troubleshoot this by pinging the loopback IPv6 address of DSW2 (2026::102:1).

This can be pinged from DSW1, and R4, but not R3 or any other devices past that point. If we look at the diagram, we see that R4 is redistributing the OSPF and RIP IPV6 routes.

However, looking at the routing table we see that R4 has the 2026::102 network in the routing table known via RIP, but that R3 does not have the route:

```
         I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
         O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
         ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
OI   2026::1:0/122 [110/11175]
      via FE80::21B:2AFF:FE48:A130, Tunnel34
OI   2026::1:0/123 [110/11239]
      via FE80::21B:2AFF:FE48:A130, Tunnel34
C    2026::2:0/122 [0/0]
      via ::, FastEthernet0/0
L    2026::2:1/128 [0/0]
      via ::, FastEthernet0/0
R    2026::3:0/122 [120/2]
      via FE80::21B:8FFF:FEB8:2A41, FastEthernet0/0
OI   2026::12:0/122 [110/11239]
      via FE80::21B:2AFF:FE48:A130, Tunnel34
C    2026::34:0/122 [0/0]
      via ::, Tunnel34
L    2026::34:2/128 [0/0]
      via ::, Tunnel34
R    2026::101:0/122 [120/2]
      via FE80::21B:8FFF:FEB8:2A41, FastEthernet0/0
R    2026::102:0/122 [120/3]
      via FE80::21B:8FFF:FEB8:2A41, FastEthernet0/0
OI   2026::111:0/122 [110/11240]
```

```
R3>show ipv6 route
IPv6 Routing Table - 13 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
       U - Per-user Static route
       I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
       O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
       ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
C    2026::1:0/122 [0/0]
      via ::, Serial0/0.23
O    2026::1:0/123 [110/128]
      via FE80::21B:2AFF:FE48:A0A0, Serial0/0.23
L    2026::1:2/128 [0/0]
      via ::, Serial0/0.23
OI   2026::12:0/122 [110/128]
      via FE80::21B:2AFF:FE48:A0A0, Serial0/0.23
C    2026::34:0/122 [0/0]
      via ::, Tunnel34
L    2026::34:1/128 [0/0]
      via ::, Tunnel34
OI   2026::111:0/122 [110/129]
      via FE80::21B:2AFF:FE48:A0A0, Serial0/0.23
OI   2026::222:0/122 [110/65]
      via FE80::21B:2AFF:FE48:A0A0, Serial0/0.23
C    2026::333:0/122 [0/0]
```

When we look more closely at the configuration of R4, we see that it is redistributing OSPF routes into RIP for IPv6, but the RIP routes are not being redistributed into OSPF. That is why R3 sees R4 as an IPV6 OSPF neighbor, but does not get the 2026::102 network installed.

```
!
ipv6 router ospf 6
 log-adjacency-changes
!
ipv6 router rip RIP_ZONE
 redistribute ospf 6 metric 2 include-connected
!
!
```

So, problem is with route redistribution on R4.

QUESTION 4

What causes GRE tunnel interface to be in down/down state?

A. The source interface is administrative shutdown

B. The destination interface is down/not reachable.

C. Wrong source/destination addressing

D. https://www.CertBus.com/300-125.html

Correct Answer: A

QUESTION 5

Which two properties of GRE are valid? (Choose two.)

A. Data encapsulation

B. Multicast support

C. http://www.CertBus.com/300-135.html

D. http://www.CertBus.com/300-135.html

Correct Answer: AB

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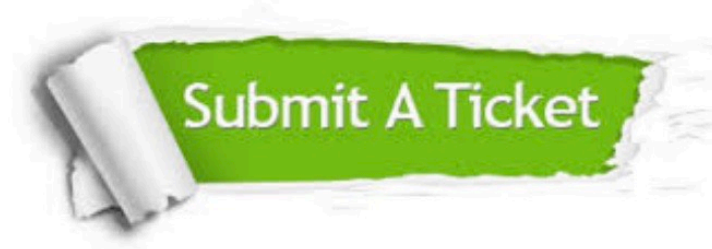To Read the Whole Q&As, please purchase the Complete Version from Our website.

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