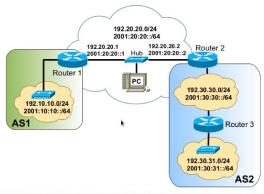
Pergunta <b>7</b> Por responder	Any iBGP neighborhood relationship established between physical interfaces will be maintained if the IGP can provide at least one available path between the BGP peers.
Nota: 2,50  Marcar pergunta	Selecione uma opção:  © Verdadeiro
	○ Falso

Consider the network of the following figure, where the BGP protocol was configured on networks 192.20.20.0/24 and 2001:20:20::/64. Inside the autonomous systems, the routing protocol is OSPF. Also consider that Router 2 announces an OSPF default route and performs redistribution of OSPF routes into the BGP protocol.



The IPv4 routing table of Router 2 is the following. Which of the following sentences are true?

C 192.20.20.0/24 is directly connected, Fastethernet0/0

C 192.30.30.0/24 is directly connected. Fastethernet0/1

O 192.30.31.0/24 [110/2] via 192.30.30.3, Fastethernet0/1

B 192.10.10.0/24 [20/0] via 192.20.20.1

B 192.30.30.0/23 [200/0] via 0.0.0.0, Null0

## Selecione uma ou mais opcões de resposta:

- 🗾 a. The routing table of Router 3 will include an entry corresponding to network 192.10.10.0/24 of Autonomous System 1. 🗙 Router 2 established a BGP neighbourhood relationship only with Router 1.
- The routing table of Router 1 will include entries for networks 192.30.30.0/24 and 192.30.31.0/24, belonging to Autonomous System 2.
- The routing table of Router 3 will include a default route
- e. We can say that Router 2 is summarizing the IP networks of Autonomous System 2.

```
An ASBR received from an external BGP peer, the following message:
Border Gateway Protocol - UPDATE Message
   Length: 92
   Type: UPDATE Message (2)
   Withdrawn Routes Length: 0
   Total Path Attribute Length: 69
 ▽ Path attributes
  Path Attribut - ORIGIN: INCOMPLETE
  Path Attribut - AS PATH: 2
  ▶ Path Attribut - MULTI EXIT DISC: 2
  ⊽Path Attribut - MP REACH NLRI
    ▶ Flags: 0x80: Optional, Non-transitive, Complete
     Type Code: MP REACH NLRI (14)
     Length: 46
     Address family: IPv6 (2)
     Subsequent address family identifier: Unicast (1)

¬Next hop network address (32 bytes)

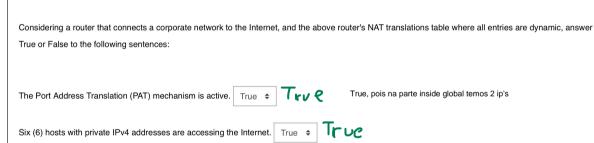
      Next hop: 2001:a:2::2 (16)
      Next hop: fe80::c802:31ff:fe9f:1d (16)
     Subnetwork points of attachment: 0

¬Network layer reachability information (9 bytes)
     D 2001:30:31::/64
Based only on this information, is possible to state that:
Selecione uma opção de resposta:
 a. Network 2001:30:31::/64 is on AS 2, and the router with address 2001:a:2::2 is on AS 2.
```

b. Network 2001:30:31::/64 is on AS 2. and the router with address 2001:a:2::2 is not on AS 2.

c. Network 2001:30:31::/64 is not on AS 2, and the router with address 2001:a:2::2 is on AS 2.

d. Network 2001:30:31::/64 is not on AS 2. and the router with address 2001:a:2::2 is not on AS 2.



The Internet host will receive the packets from the host with the IPv4 private address 10.78.25.9 with source address 195.66.62.6.

False \$

Outside local

209-40-72-45:33924

217,23,42,44:20

220.59.32.42:20

215.78.88.41:80

216.92.79.43:80

206.56.18.41:80

Outside global

209-40-72-45:33924

217.23.42.44:20

220.59.32.42:20

215.78.88.41:80

216.92.79.43:80

206.56.18.41:80

Inside local

10.78.25.1:33924

10.78.25.6:33787

10.78.25.3:17670

10.78.25.7:20728

10.78.25.9:16734

10.78.25.4:35299

Pro

icmp

qbu

qbu

abu

udp udp Inside global

195.66.62.6:33924

195.66.62.1:33787

195.66.62.5:17670

195.66.62.5:20728

195.66.62.6:16734

195.66.62.9:35299

There are six (6) active UDP connections to the Internet.

```
Pergunta 4
              Consider a network where all routers have OSPF properly configured and all of the Router Link-state entries of the OSPF database for one router are:
Por responde
              Router Link States (Area 0)
Nota: 2,50
P Marcar
                 LS age: 1486
                 Options: (No TOS-capability, DC)
                 LS Type: Router Links
                 Link State ID: 5.5.5.5
                 Advertising Router: 5.5.5.5
                 LS Seg Number: 80000003
                 Checksum: 0x24F0
                 Length: 60
                 Area Border Router
                 Number of Links: 3
                  Link connected to: a Transit Network
                                                                                  Dois ip's iquais
                   (Link ID) Designated Router address: 220.13.67.2 🗲
                  (Link Data) Router Interface address: 220.13.67.2
                  Number of TOS metrics: 0
                   TOS 0 Metrics: 8 ~ ***
                                                                                                                               Está ligado a duas transit networks
                                                                                                        ***
                  Link connected to: a Transit Network
                   (Link ID) Designated Router address: 220,34,65,2
                   (Link Data) Router Interface address: 220.34.65.1
                   Number of TOS metrics: 0
                  TOS 0 Metrics: 7
                  Link connected to: a Stub Network
                   (Link ID) Network/subnet number: 220.7.63.2
                   (Link Data) Network Mask: 255.255.255.252
                   Number of TOS metrics: 0
                   TOS 0 Metrics: 7
              Router Link States (Area 3)
                 LS age: 1217
                 Options: (No TOS-capability, DC)
                 LS Type: Router Links
                 Link State ID: 5.5.5.5
                 Advertising Router: 5.5.5.5
                 LS Seg Number: 80000007
                 Checksum: 0x35C4
                 Length: 48
                 Area Border Router
                 Number of Links: 2
                  Link connected to: a Transit Network
                   (Link ID) Designated Router address: 220.15.64.1
                   (Link Data) Router Interface address: 220.15.64.1
                  Number of TOS metrics: 0
```

TOS 0 Metrics: 7

Link connected to: a Stub Network

LS age: 1217 Options: (No TOS-capability, DC) LS Type: Router Links Link State ID: 5.5.5.5 Advertising Router: 5.5.5.5 LS Seg Number: 80000007 Checksum: 0x35C4 Lenath: 48 Area Border Router Number of Links: 2 Link connected to: a Transit Network (Link ID) Designated Router address: 220.15.64.1 (Link Data) Router Interface address: 220.15.64.1 Number of TOS metrics: 0 TOS 0 Metrics: 7 Link connected to: a Stub Network (Link ID) Network/subnet number: 220.30.62.2 (Link Data) Network Mask: 255,255,255,252 Number of TOS metrics: 0 TOS 0 Metrics: 4 The Router with OSPF ID 5.5.5.5 has one interface, connected to network with ID 220.30.62.2, with an OSPF cost of 4. True 🕏 True 🕏 The Router with OSPF ID 5.5.5.5 is not the Designated Router of the network with ID 220.13.67.2. The Router with OSPF ID 5.5.5.5 has one interface, connected to network with ID 220.13.67.2, with an OSPF cost of 15. False + The Router with OSPF ID 5.5.5.5 is an internal backbone router with three interfaces connected to networks from Area 0. True \$\diamon{2}{\diamonds}\$

Router Link States (Area 3)

Grading: right answer: 25%, wrong answer: -12%, no answer: 0%

	•			
icmp	194.99.20.1:12823	192.168.56.9:12823	211.58.57.44:12823	211.58.57.44:12823
icmp	194.99.20.7:30548	192.168.56.4:30548	220.98.31.43:30548	220.98.31.43:30548
icmp	194.99.20.9:25421	192.168.56.2:25421	213.65.82.41:25421	213.65.82.41:25421
tcp	194.99.20.4:26683	192.168.56.1:26683	209.41.76.44:80	209.41.76.44:80
tcp	194.99.20.6:17659	192.168.56.3:17659	202.98.65.43:20	202.98.65.43:20
tcp	194.99.20.8:21599	192.168.56.7:21599	215.85.27.41:20	215.85.27.41:20
udp	194.99.20.2:18992	192.168.56.8:18992	202.73.42.42:80	202.73.42.42:80
	194.99.20.1	192.168.56.9		1
	194.99.20.2	192.168.56.8		
	194.99.20.9	192.168.56.2		
	194.99.20.8	192.168.56.7		
202	194.99.20.7	192.168.56.4		222
	194.99.20.6	192.168.56.3		
	194.99.20.4	192.168.56.1		
Conside	ering a router that connects	a corporate network to the I	nternet, and the above route	er's NAT translations table

Outside local

Outside global

Inside global

Pro

Inside local

Considering a router that connects a corporate network to the Internet, and the above router's NAT translations table where all entries are dynamic, answer True or False to the following sentences:

Considering a router that connects a corporate network to the Internet, and the above router's NAT translations table where all entries are dynamic, answer True or False to the following sentences:

Seven (7) hosts with private IPv4 addresses are accessing the Internet.

A packet (from the Internet) that reaches this router with destination address 194.99.20.7 will be forwarded to the private network host with address 192.168.56.4. True •

The Port Address Translation (PAT) mechanism is enabled.

Todos os ipis são diferente:

There are two (2) active UDP connections to the Internet. False \$

Grading: right answer: 25%, wrong answer: -12%, no answer: 0%

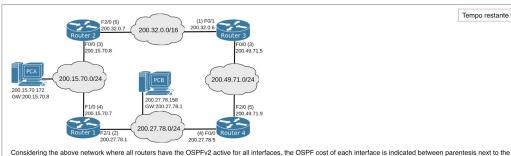
Esta UC



Pergunta 5

Nota: 2,50 ₹ Marcar

pergunta



respective interface, and the routing process is stabilized, answer True or False to the following sentences:

Como existem duas portas com o mesmo custo logo deviam de estar 2 "vias"

Tempo restante 0:18:2

The full IPV4 routing table entry in Router 1 for network 200.49.71.0/24 is 0 200.49.71.0/24 [110/7] via 200.27.78.5, 00:00:02, F2/1



The full IPV4 routing table entry in Router 4 for network 200.32.0.0/16 is

0 200.32.0.0/16 [110/6] via 200.49.71.5, 00:00:04, F2/0



The full IPV4 routing table entry in Router 2 for network 200.49.71.0/24 is

0 200.49.71.0/24 [110/9] via 200.32.0.6, 00:00:04, F2/0

The full IPV4 routing table entry in Router 3 for network 200.27.78.0/24 is

0 200.27.78.0/24 [110/7] via 200.27.78.5. 00:00:15. F2/1

Tem custo 6, não 7

Considering the above network where all routers have the OSPFv2 active for all interfaces, the OSPF cost of each interface is indicated between parentesis next to the respective interface, and the routing process is stabilized, answer True or False to the following sentences:

The full IPV4 routing table entry in Router 2 for network 192.17.62.0/24 is 0 192.17.62.0/24 [110/6] via 192.48.0.4, 00:00:09, F2/0

The full IPV4 routing table entry in Router 3 for network 192.17.62.0/24 is

0 192.17.62.0/24 [110/5] via 192.22.74.6, 00:00:06, F0/1

True + True

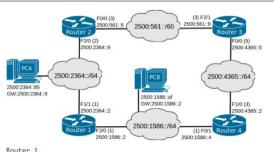
True

The full IPV4 routing table entry in Router 1 for network 192.48.0.0/16 is 0 192.48.0.0/16 [110/3] via 192.13.70.9, 00:00:21, F1/0

O custo é 2 não 3

The full IPV4 routing table entry in Router 4 for network 192.48.0.0/16 is 0 192.48.0.0/16 [110/6] via 192.22.74.9, 00:00:21, F2/0

O custo é 5, não 6



Router :

Interface F1/1: FE80::C735:E0C5:D41A:C7F2
Interface F2/0: FF80::DD09:8C8B:F679:9ACB

Router 2

Interface F2/0: FE80::DE3C:AA32:D710:BE79
Interface F0/0: FE80::D7A1:F09F:9D8C:9F5A

Router 3

Interface F2/1: FE80::CC26:E76F:CF2A:B2B0
Interface F0/0: FE80::79BF:B072:ADFC:C7CF

Router 4

Interface F1/0: FE80::E8D1:8D4A:AF68:C961
Interface F0/1: FE80::8B5C:CBA5:94BA:A0D6

Considering the above network where all routers have the OSPFv3 active for all interfaces, the OSPF cost of each interface is indicated between parentesis next to the respective interface, the above listed Link-Local addresses, and that the routing process is stabilized, answer True or False to the following sentences:

The full IPV4 routing table entry in Router 4 for network 2500:561::/60 is

0 2500:561::/60 [110/5] via FE80::DD09:8C8B:E679:9ACB, 00:00:21, F0/1



The full IPV4 routing table entry in Router 1 for network 2500:4365::/64 is

0 2500:4365::/64 [110/5] via FE80::8B5C:CBA5:94BA:A0D6, 00:00:17, F2/0



The full IPV4 routing table entry in Router 2 for network 2500:1586::/64 is

0 2500:1586::/64 [110/5] via FE80::DD09:8C8B:E679:9ACB, 00:00:18, F0/1



The full IPV4 routing table entry in Router 3 for network 2500:1586::/64 is

0 2500:1586::/64 [110/6] via FE80::E8D1:8D4A:AF68:C961, 00:00:17, F0/0





False \$ Como existem 2 caminhos com o mesmo custo logo deviam de existir dois caminhos na routing table



Resposta guardada Nota: 2,50

pergunta

## Packet 1

Length: 71

Type: UPDATE Message (2) Withdrawn Routes Length: 0 Total Path Attribute Length: 38

Path Attributes

Path Attribute - ORIGIN: IGP

Path Attribute - AS\_PATH: empty Path Attribute - NEXT HOP: 10.54.69.5

Path Attribute - LOCAL PREF: 300

Network Layer Reachability Information (NLRI)

Considering the above BGP (partial) packet exchanged between two BGP neighbors:

Selecione uma opcão de resposta:

- a. This is a BGP update between two routers from the same AS (iBGP), announcing a network (in NLRI field) from their own AS.
- ob. This is a BGP update between two routers from different AS (eBGP), announcing a network (in NLRI field) from AS 300.
- o. This is a BGP update between two routers from the same AS (iBGP), announcing a network (in NLRI field) from a different AS.
- Od. This is a BGP update between two routers from different AS (eBGP), announcing a network (in NLRI field) from a different third AS.

Limpar a minha escolha