Packet 1

Ethernet II, Src: ca:00:69:a9:3c:03, Dst: ca:08:c7:30:a0:09 Internet Protocol Version 4, Src: 10.10.53.4, Dst: 10.31.33.3 Internet Protocol Version 4, Src: 192.23.55.8, Dst: 192.17.73.5

Internet Control Message Protocol

Type: 8 (Echo (ping) request) Code: 0

*>i 207.4.68.0

Considering the above captured (partial) packet and assuming that each IP address identifies a different device, answer True or False to the following sentences:

This packet depicts data communication through an IPv4 over IPv4 tunnel.

This packet depicts data communication through a tunnel, this same tunnel does not allow IPv6 data communication.

A router receiving this packet will route the packet towards the address 10.31.33.3.

This packet depicts data communication through a tunnel established between end-points with addresses 192.23.55.8 and 192.17.73.5.

Status codes: s suppressed, d damped, h history, * valid, > best, i - internal, r RIB-failure, S Stale, m multipath, b backup-path, x best-external, f RT-Filter

Origin codes: i - IGP, e - EGP, ? - incomplete

200.2.33.3

COSPF, RIP ... Metric LocPrf Weight Path Network Next Hop

*> 191.47.82.0 0.0.0.0 9 32768 i / *>i 193.28.69.0 200.2.33.3 100 2007 2002 i * (; B6P 204.25.83.7

0 2006 2001 2005 2002 i 100 *>i 202.27.64.0 200.2.33.3 2007 2001 2002 i

*>i 203.43.17.0 200.2.33.3 100 2007 2005 i 208.29.42.7 100 2008 2001 2007 2005 i

Considering the previous BGP route announcements table in an ASBR router, that is not running any IGP routing protocol, answer True or False to the following sentences: Router de Frontière

32768 i

The network with prefix 193.28.69.0/24 is located in AS number 2002.

The BGP route announcement of network with prefix 203.43.17.0/24 via the next-hop 208.29.42.7 was received from a neighbor from a different AS using an external BGP

From all BGP route announcements received, this router placed five networks routes on the IPv4 routing table.

A BGP route announcement of network with prefix 193.28.69.0/24 was received from the neighbor AS with number 2002.

- 3. Regra prática para distinguir eBGP de iBGP:
 - Se o "leftmost" do AS_PATH for igual ao teu AS local, então foi iBGP (porque o vizinho está no mesmo AS).
 - Se for diferente, é eBGP.

Internet Protocol Version 4, Src: 192.31.19.1, Dst: 192.31.19.3 Transmission Control Protocol, Src Port: 29296, Dst Port: 179, Seq: 1, Ack:1, Len: 53 Border Gateway Protocol - OPEN Message Marker: ffffffffffffffffffffffffffff Length: 53 Type: OPEN Message (1) Version: 4 My AS: 2001 Hold Time: 180 BGP Identifier: 195.19.40.8 Optional Parameters Length: 12 Optional Parameters Capability Parameter Type: Capability Parameter Type: Capability (2) Parameter Length: 6 Capability: Multiprotocol extensions capability Optional Parameter: Capability Parameter Type: Capability (2) Parameter Length: 6 Capability: Support for 4-octet AS number capability	
Packet 2	
Internet Protocol Version 4, Src: 192.31.19.1, Dst: 192.31.19.3 Transmission Control Protocol, Src Port: 29296, Dst Port: 179, Seq: 92, Ack:92, Len: 253 Border Gateway Protocol - UPDATE Message Marker: ffffffffffffffffffffffffffff Length: 61 Type: UPDATE Message (2) Withdrawn Routes Length: 0 Total Path Attribute Length: 34 Path attributes Path Attribute - ORIGIN: IGP Path Attribute - AS_PATH: 2001 2007 Path Attribute - MEXT_HUP: 192.31.19.1 Path Attribute - MEXT_LEXIT_DISC: 0 Network Layer Reachability Information (NLRI) 192.17.20.0/24	
Considering the above captured (partial) packets from the same BGP peering relation, answer True or False to the following sentences: The network 192.17.20.0/24 belongs to Autonomous System number 2007.	
Network 192.17.20.0/24 is not a BGP aggregate of multiple networks.	
These packets are part of an internal BGP peering relation.	
Network 192.17.20.0/24 was added to the BGP process by a redistribution mechanism from other roughly strong the redistribution of the roughly strong	uting protocol.

Packet 1