

2017-2-60-096

1.

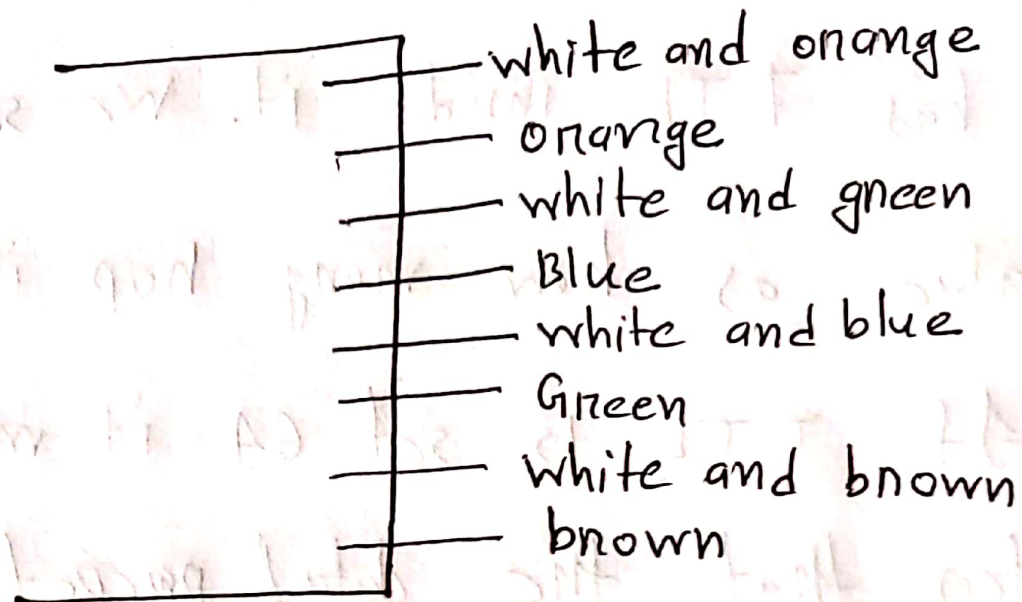


Figure 1: Orientation of a straight-through cable.

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21

ARP finds the hardware address ~~MAC~~ MAC address. ARP also maintains a table in which MAC address are mapped to IP address.

3

Data packets usually have TTL that tells how long the packet will last (means how many hop the packet can survive). It is not possible to implement a clock in the packet's header to denote its age.

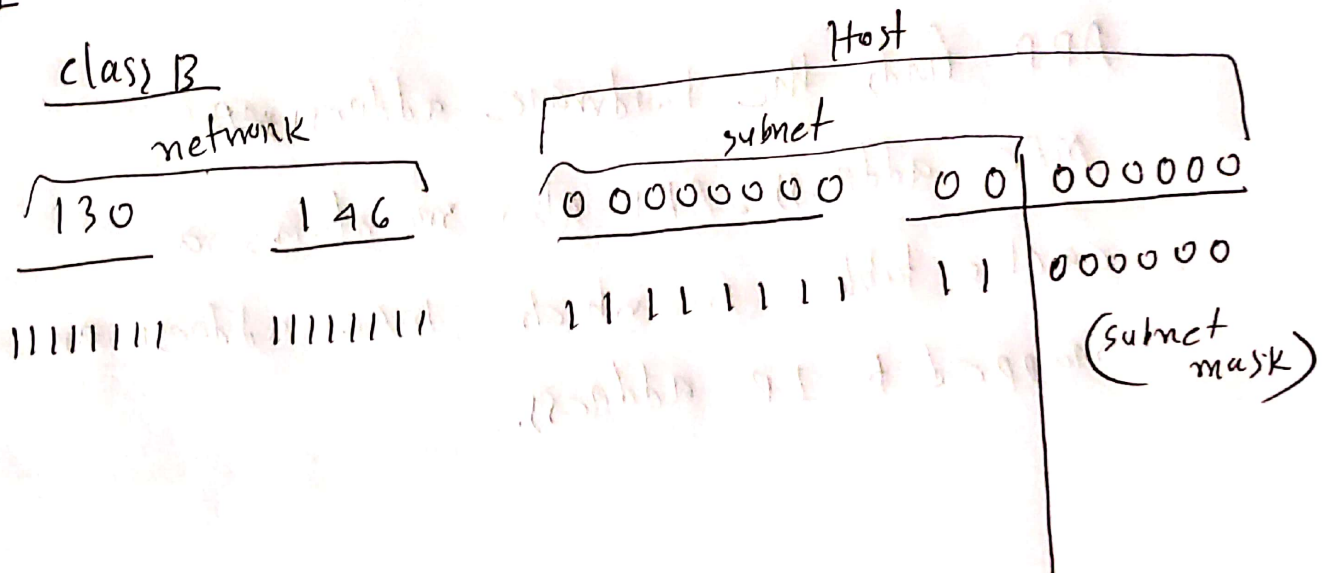
Because if we ^{want to} insert a clock inside the packet there will ~~be~~ [^] need a huge space. Because clock has its own executable file. It need to decrement its value. so, lots of function will be

there. As packets are only a collection of bits.

And this collection of bits ~~is~~ moves from one network to another. It is not possible to implement a code therein and maintain the clock in the packet.

That is why it is not possible to implement the clock in the packet's header to denote its age.

4



here network IP : 130.146.0.0

subnet mask : 255.255.255.192

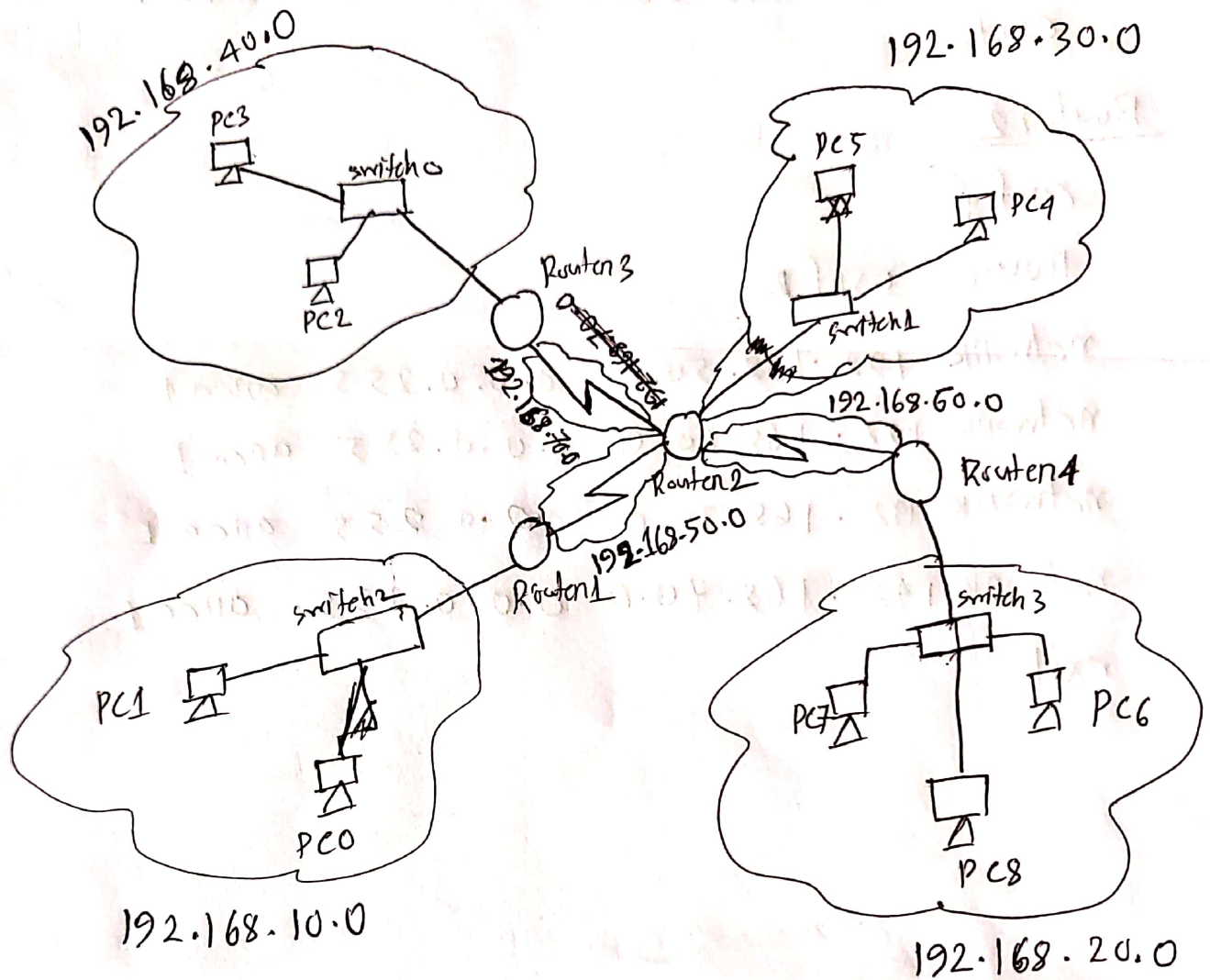
5

mask value	255	255	255	255
given subnet	255	255	240	0
mask	0	0	10	255

so wild card mask = 0.0.10.255

part e

1



router 3

IP route 192.168.10.0 255.255.255.0 192.168.50.2

IP route 192.168.20.0 255.255.255.0 192.168.50.2

IP route 192.168.40.0 ~~255~~255.255.255.0 192.168.50.2

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part B

a)

IP: 192.168.20.120

MAC: 46:FE:2D:10:36:C0

b)

IP: 120.136.36.127

MAC: ~~26~~ FC:26:12:10:D0:F0