

Faculté des Sciences de Technologies

Rapport TD3 Reseau1

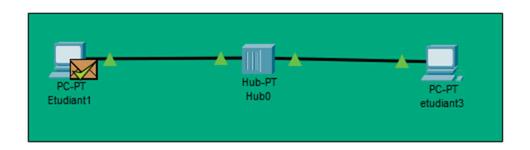
Nom: PIERRE

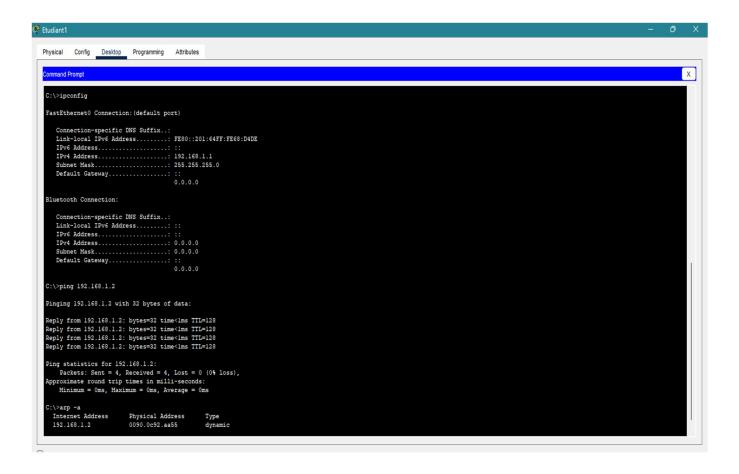
Prénom: Yann Lelay

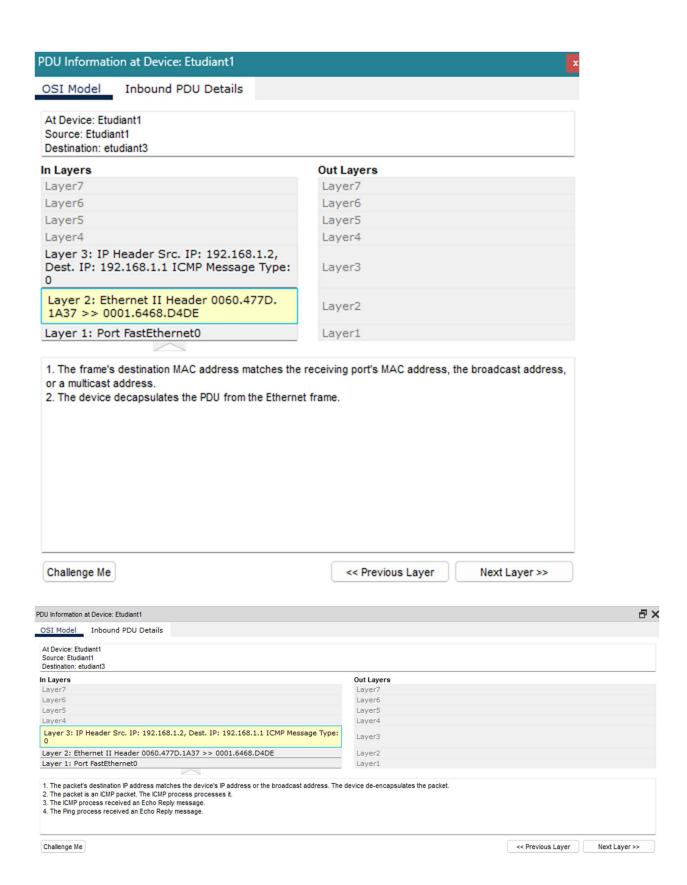
Niveau: L3-Sciences Informatiques

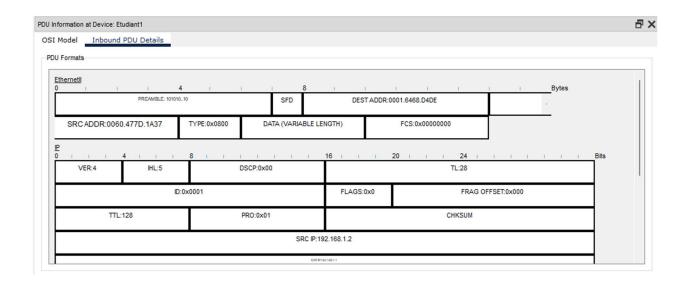
Description:

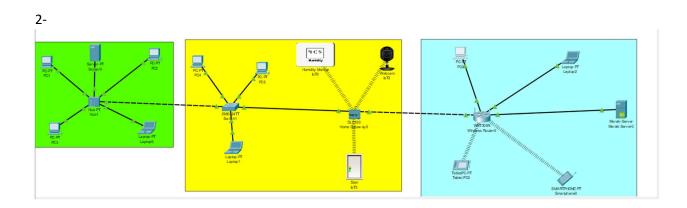
- Comprendre le protocol ARP et savoir faire communiquer des PC entre eux







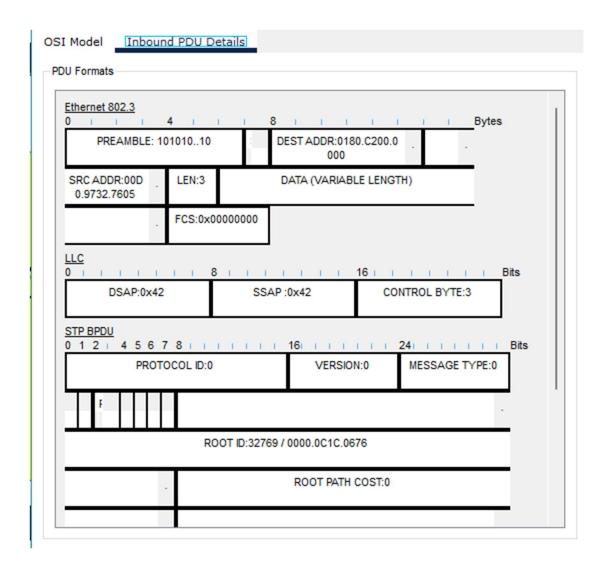




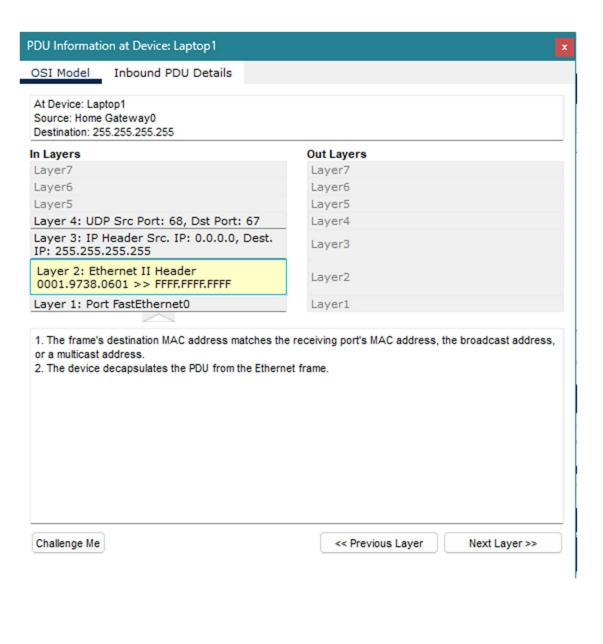
```
C:\>ipconfig
FastEthernet0 Connection: (default port)
  Connection-specific DNS Suffix..:
  Link-local IPv6 Address..... FE80::2D0:D3FF:FE2B:3A41
  IPv6 Address....: ::
  IPv4 Address..... 192.168.1.3
  Subnet Mask..... 255.255.255.0
  Default Gateway....: ::
Bluetooth Connection:
  Connection-specific DNS Suffix..:
  Link-local IPv6 Address....: ::
  IPv6 Address....: ::
  IPv4 Address..... 0.0.0.0
  Subnet Mask..... 0.0.0.0
  Default Gateway....: ::
                                0.0.0.0
C:\>ping 192.168.1.8
Pinging 192.168.1.8 with 32 bytes of data:
Reply from 192.168.1.8: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.8:
  Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
  Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>arp -a
 Internet Address Physical Address
                                        Type
 192.168.1.8
                    00d0.97a6.6e82
                                        dynamic
```

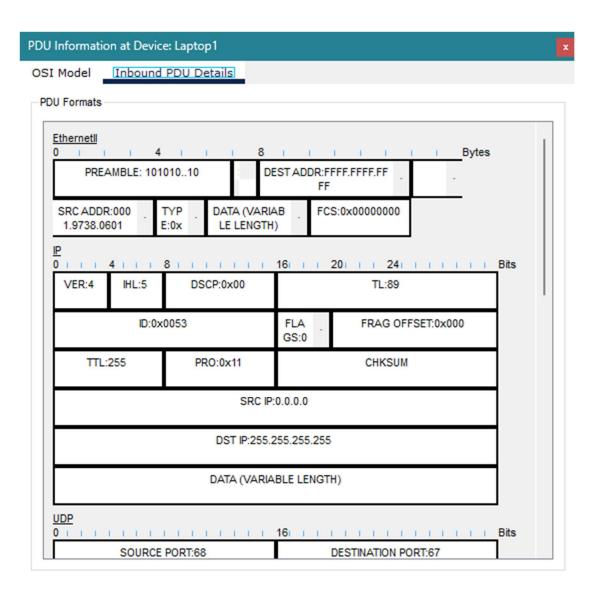
Observer les parquets STP

OSI Model Inbound PDU Details		
At Device: PC3 Source: Switch1 Destination: STP Multicast Address		
n Layers	Out Layers	
Layer7	Layer7	
Layer6	Layer6	
Layer5	Layer5	
Layer4	Layer4	
Layer3	Layer3	
Layer 2: IEEE 802.3 Header 00D0.9732.7605 >> 0180.C200.0000 LLC STP BPDU	Layer2	
Layer 1: Port FastEthernet0	Layer1	
FastEthernet0 receives the frame.		

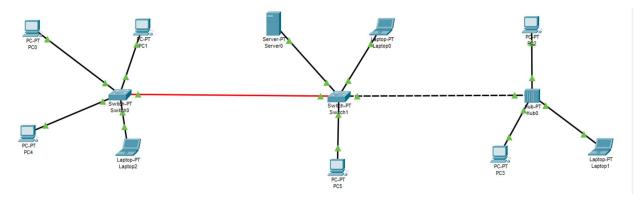


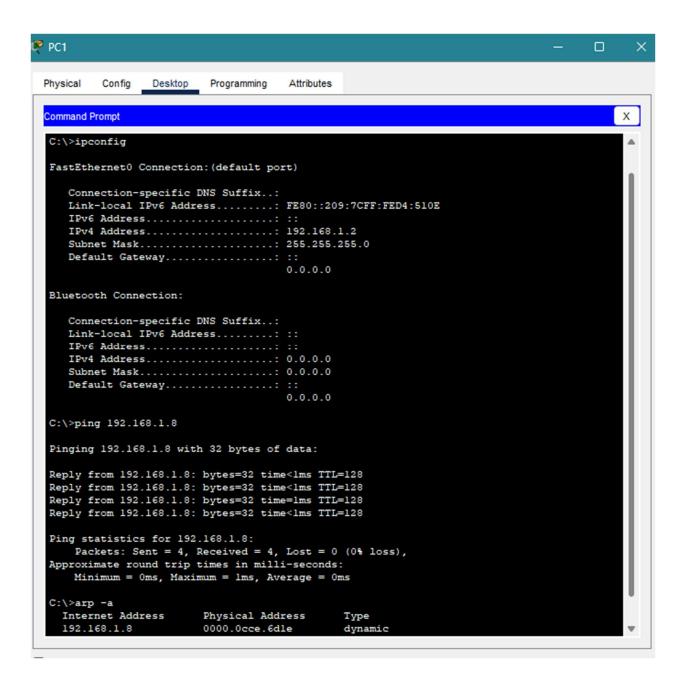
Observation des parquets





Créer un reseau de votre choix





OSI Model

Outbound PDU Details

At Device: PC1 Source: PC1 Destination: Laptop1

In Layers

Layer7	
Layer6	
Layer5	
Layer4	
Layer3	
Layer2	
Layer1	

Out Layers

Layer7 Layer6 Layer5 Layer4

Layer 3: IP Header Src. IP: 192.168.1.2, Dest. IP: 192.168.1.8 ICMP Message Type: 8

0009.7CD4.510E >> 0000.0CCE.6D1E Layer 1: Port(s): FastEthernet0

Layer 2: Ethernet II Header

- 2. The Ping process creates an ICMP Echo Request message and sends it to the lower process.
- 3. The source IP address is not specified. The device sets it to the port's IP address.
- 4. The device sets TTL in the packet header.

1. The Ping process starts the next ping request.

5. The destination IP address is in the same subnet. The device sets the next-hop to destination.

Challenge Me

<< Previous Layer

Next Layer >>

OSI Model Outbound PDU Details

At Device: PC1 Source: PC1 Destination: Laptop1

In Layers

Layer7		
Layer6		
Layer5		
Layer4		
Layer3		
Layer2		
Layer1		

Out Layers

Layer7 Layer6 Layer5 Layer4 Layer 3: IP Header Src. IP: 192.168.1.2, Dest. IP: 192.168.1.8 ICMP Message Type: 8

Layer 2: Ethernet II Header 0009.7CD4.510E >> 0000.0CCE.6D1E

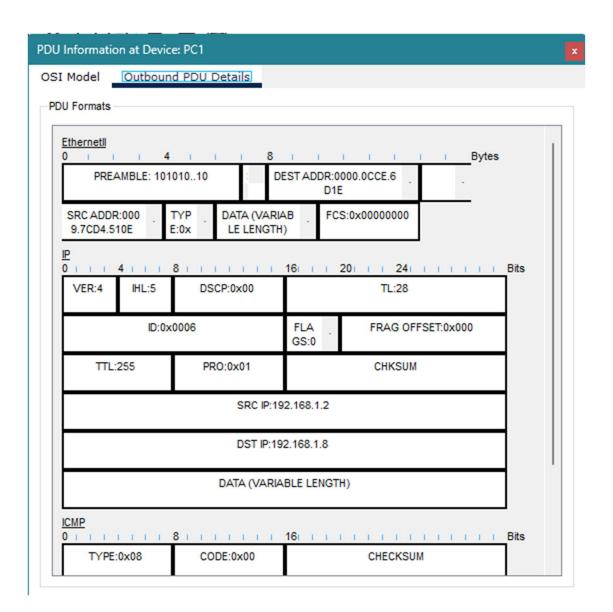
Layer 1: Port(s): FastEthernet0

- 1. The next-hop IP address is a unicast. The ARP process looks it up in the ARP table.
- The next-hop IP address is in the ARP table. The ARP process sets the frame's destination MAC address to the one found in the table.
- 3. The device encapsulates the PDU into an Ethernet frame.

Challenge Me

<< Previous Layer

Next Layer >>



Parquet STP

OSI Model Inbound PDU Details

