

## FACULTÉ DES SCIENCES ET DES TECHNOLOGIES (FST)

## Troisième année

## **RAPPORT**

Sur le Travail de Laboratoire N° 2

**COURS** 

Réseaux

**Professeur** 

**Ismael SAINT AMOUR** 

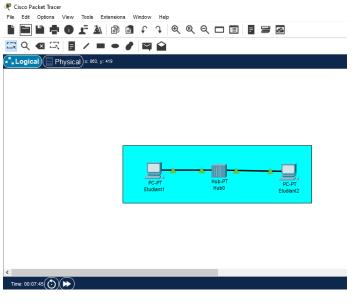
PRÉPARÉ PAR

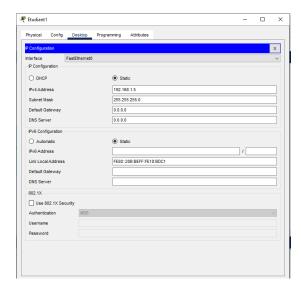
**Peterson CHERY** 

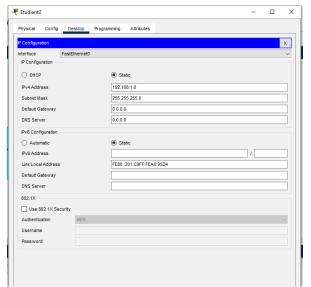
**SEMESTRE** 

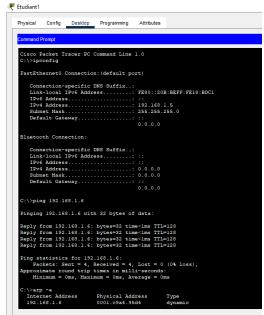
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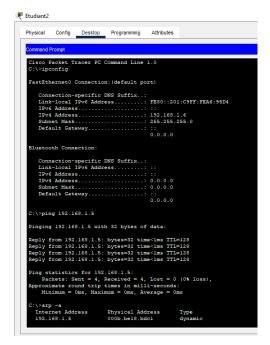
**1.** La reproduction de cette topologie, Configuration les adresses IP, Observation des tables ARP, Analysons 3 des paquets en simulation.





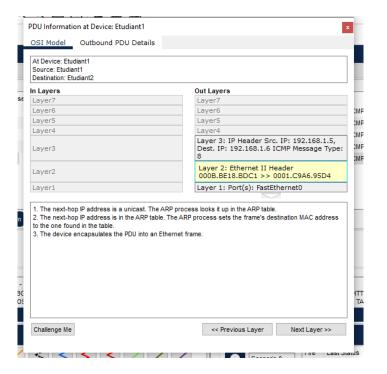


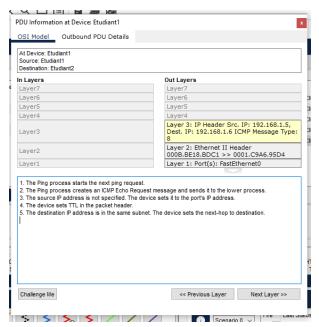


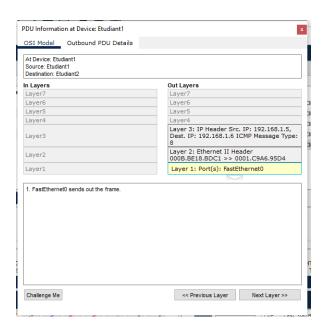


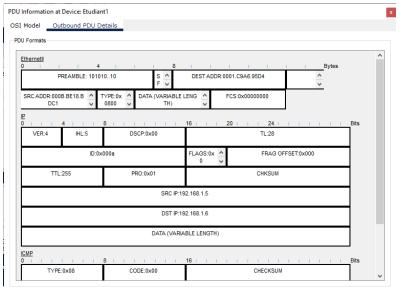
• Il y a qu'un seul paquet ICMP à analyser



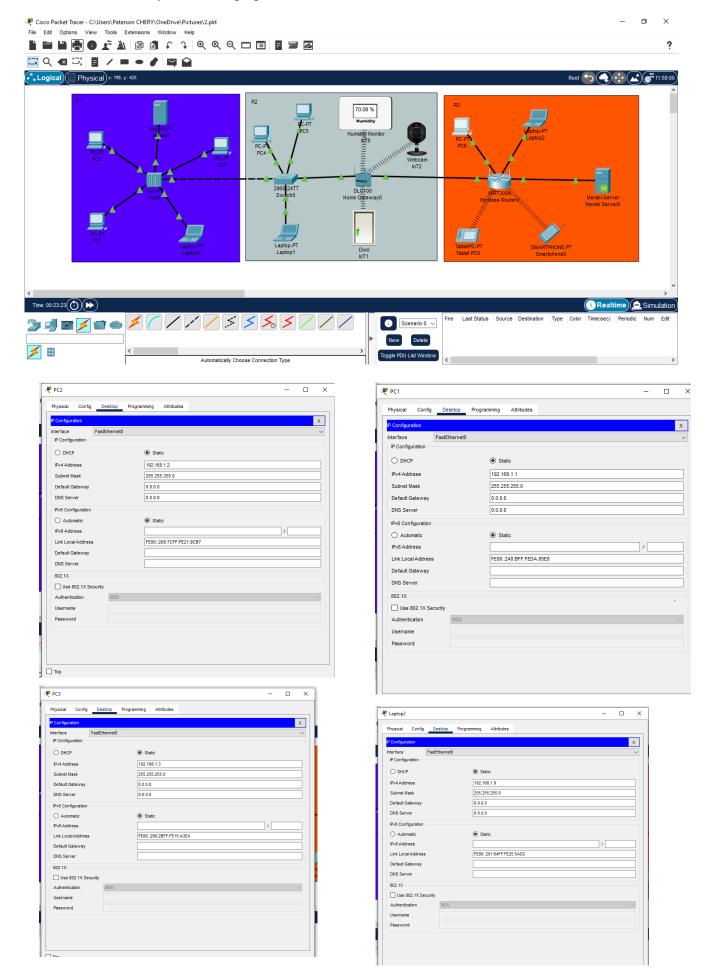


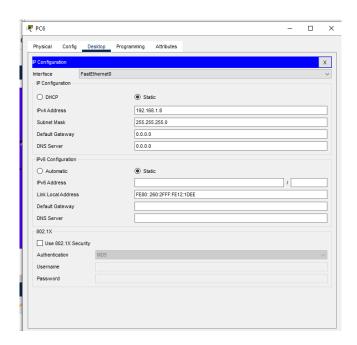






**2.** La reproduction de cette topologie, Configuration des adresses IP, Observation des tables ARP, Analysons 2 des paquets en simulation.





Meraki Server0			>
hysical Config Attrib	utes		
GLOBAL			
Settings	Global Settings		
Algorithm Settings			
INTERFACE	Display Name Meraki Server0		
FastEthernet0	Gateway/DNS IPv4		11
	ODHCP		Ш
	Static		Ш
			Ш
	Default Gateway 192.168.1.11		Ш
	DNS Server 250.250.250.0		Ш
			4
	Gateway/DNS IPv6		
	O Automatic		П
	Static		П
	Default Gateway		
	DNS Server		
	DNS Server		
~			

Physical Config Desklop Programming Attributes

Command Prompt

C:\Dipconfig

FastEthernetO Connection:(default port)

Connection-specific DNS Suffix.:
Link-local IPv6 Address ...: F280::240:BFF:FEDA:85E8

IFv6 Address ...: 192.168.1.1

Subnet Mask ...: 255.255.255.20

Default Gateway ...: ...

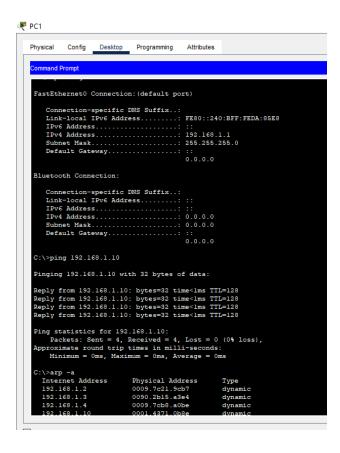
Connection-specific DNS Suffix.:
Link-local IPv6 Address ...: ...

IFv6 Address ...: ...

IFv7 Address ...: ...: ...

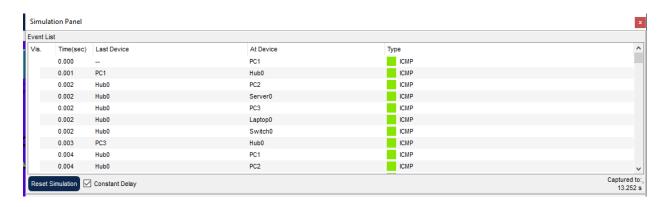
IFv7 Ad

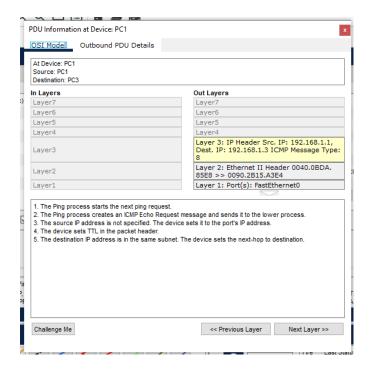
P Configuration						
IP Configuration						
O DHCP		<ul><li>Static</li></ul>				
IPv4 Address		192.168.1.10				
Subnet Mask		255.255.255.0				
Default Gateway		0.0.0.0				
DNS Server		0.0.0.0				
IPv6 Configuration						
O Automatic		Static				
IPv6 Address					1	
Link Local Address		FE80::201:43FF:FE	71:B8E			
Default Gateway						
DNS Server						
802.1X						
Use 802.1X Security						
	MD5					
Username						
Password						

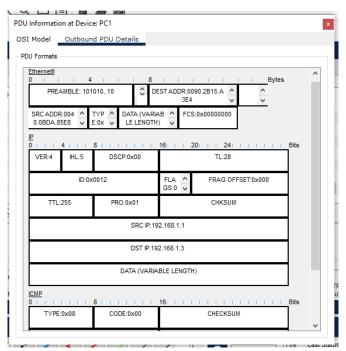


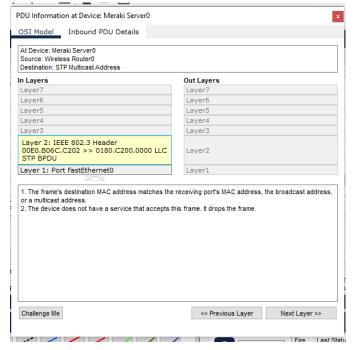
 Le Réseau 1 est en relation avec le Réseau 2 tandis que le Réseau 1 n'est pas connecté avec le Réseau 3

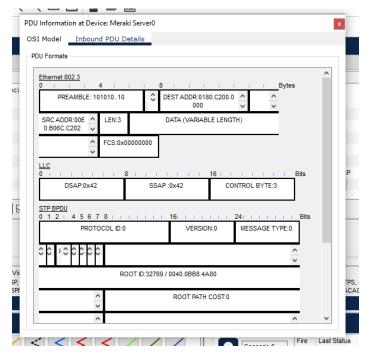
• Analysons les deux paquets (ICMP, STP)





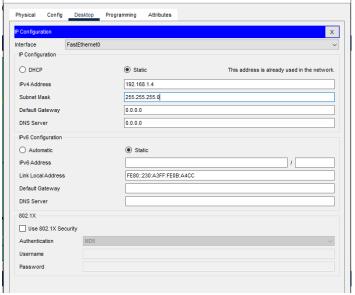




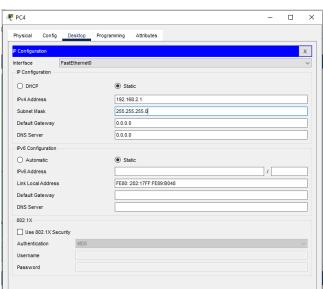


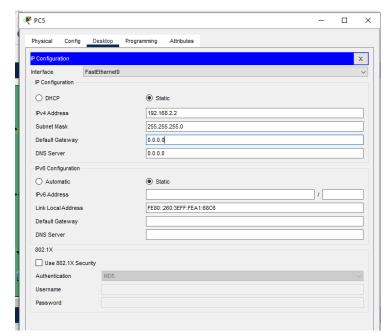
**3.** Création d'un réseau, Configuration des adresses IP, Observation des tables ARP, et Analysons 2 des paquets en simulation.

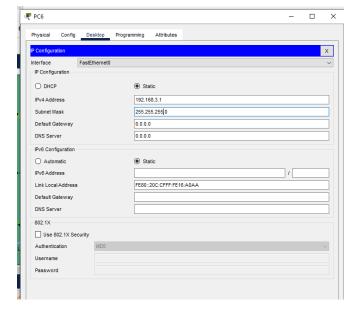


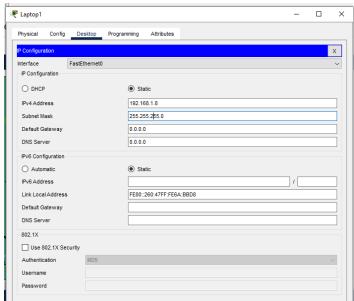


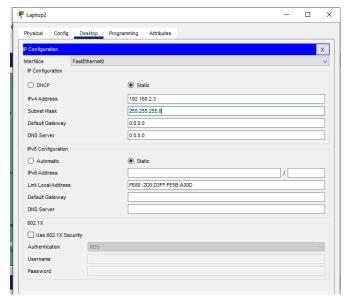
**№** PC3

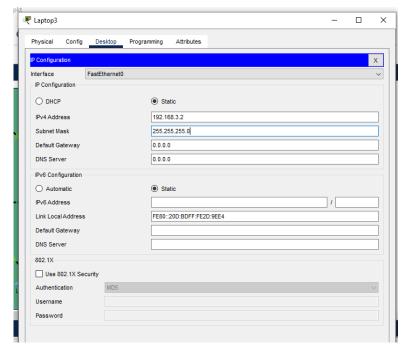


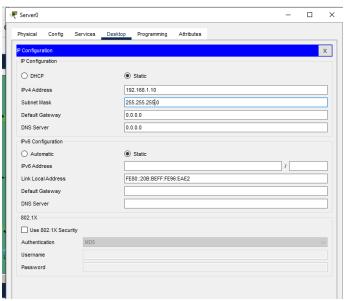












```
Physical Config Desktop Programming Attributes
 Command Prompt
  Cisco Packet Tracer PC Command Line 1.0
FastEthernet0 Connection: (default port)
     Connection-specific DNS Suffix :
Link-local IPv6 Address :: FE80::230:A3FF:FEE8:88AD
IPv6 Address :: ::
IPv4 Address :: :192.168.1.2
Subnet Mask :: 255.255.255.0
Default Gateway ::
0.0.0.0
Bluetooth Connection:
      Connection-specific DNS Suffix..:
Link-local IPv6 Address....:::
     C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.3:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = Oms, Average = Oms
 C:\>arp -a
Internet Address
192.168.1.3
                                           Physical Address
                                                                                  Type
dynamic
                                          0090.0ce2.1e4b
```

Physical Config Desktop Programming Attributes Command Prompt C:\>ipconfig FastEthernet0 Connection: (default port) Connection-specific DNS Suffix.:
Link-local IPv6 Address. : FE00::230:A3FF:FEE8:88AD
IPv6 Address. ::
1Pv4 Address. : 192.168.1.2
Subnet Mask : 255.255.0
Default Gateway :: Bluetooth Connection: Connection-specific DNS Suffix.:
Link-local IPv6 Address. ::
IPv6 Address. ::
IPv6 Address. : 0.0.0.0
Subnet Mask : 0.0.0.0
Default Gateway :: C:\>ping 192.168.1.4 Pinging 192.168.1.4 with 32 bytes of data: Reply from 192.168.1.4: bytes=32 time=10ms TTL=128 Reply from 192.168.1.4: bytes=32 time=17ms TTL=128 Reply from 192.168.1.4: bytes=32 time<\lms TTL=128 Reply from 192.168.1.4: bytes=32 time<\lms TTL=128 Ping statistics for 192.168.1.4:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = Oms, Maximum = 17ms, Average = 6ms C:\>arp -a
 Internet Address
 192.168.1.3
 192.168.1.4 Physical Address 0090.0ce2.1e4b 0030.a30b.a4cc Type dynamic dynamic

₽ PC1

₹ PC1

```
Physical Config Desktop Programming Attributes
Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
 C:\>ipconfig
 FastEthernet0 Connection:(default port)
    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:\>192.168.2.3
Invalid Command.
 C:\>ping 192.168.2.3
 Pinging 192.168.2.3 with 32 bytes of data:
 Request timed out.
Request timed out.
Request timed out.
Request timed out.
 Ping statistics for 192.168.2.3:
```

```
Laptop3
   Physical Config Desktop Programming Attributes
   Cisco Packet Tracer PC Command Line 1.0 C:\>ipconfig
    FastEthernet() Connection: (default port)
       Bluetooth Connection:
       C:\>ping 192.168.3.1
    Pinging 192.168.3.1 with 32 bytes of data:
    Reply from 192.168.3.1: bytes=32 time<lms TTL=128
    Ping statistics for 192.168.3.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms
     C:\>arp -a
Internet Address
192.168.3.1
                                    Physical Address
                                                                 Type
dynamic
```

```
Laptop1
```

```
Physical
          Config Desktop Programming Attributes
 ommand Prompt
 FastEthernet0 Connection: (default port)
    Connection-specific DNS Suffix.:
Link-local IPv6 Address.......: FE80::260:47FF:FE6A:BBD8
    IPv6 Address....::
     IPv4 Address..... 192.168.1.8
    Subnet Mask..... 255.255.255.0
    Default Gateway....:::
                                             0.0.0.0
 Bluetooth Connection:
     Connection-specific DNS Suffix..:
    Link-local IPv6 Address....: ::
    Subnet Mask..... 0.0.0.0
    Default Gateway....:
 C:\>ping 192.168.1.10
 Pinging 192.168.1.10 with 32 bytes of data:
Reply from 192.168.1.10: bytes=32 time<lms TTL=128
 Ping statistics for 192.168.1.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

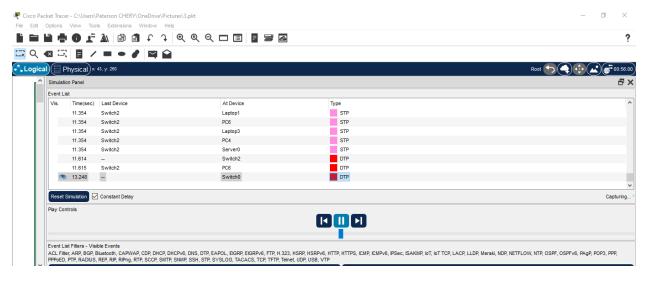
Approximate round trip times in milli-seconds:

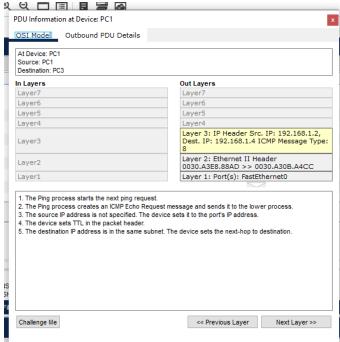
Minimum = Oms, Maximum = Oms, Average = Oms
 C:\>arp -a
Internet Address
                              Physical Address
                                                         Type
                                                         dynamic
   192.168.1.10
                              000b.be96.eae2
```

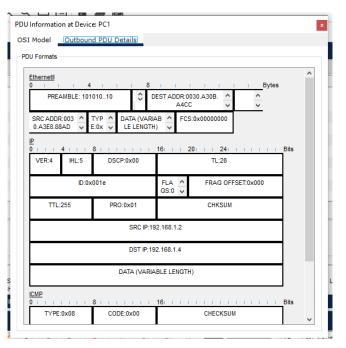
```
₹ Server0
    Physical Config Services Desktop Programming
     FastEthernet0 Connection:(default port)
         0 0 0 0
     C:\>ping 192.168.2.1
      Pinging 192.168.2.1 with 32 bytes of data:
     Request timed out.
     Request timed out.
Request timed out.
     Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
     C:\>ping 192.168.1.2
     Pinging 192.168.1.2 with 32 bytes of data:
    Reply from 192.168.1.2: bytes=32 time=10ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
     Ping statistics for 192.168.1.2:
    packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = 10ms, Average = 7ms
      C:\>arp -a
Internet Address Physical Address
162,168,1 2 0030,a3e8,88ad
                                                                            Type
```

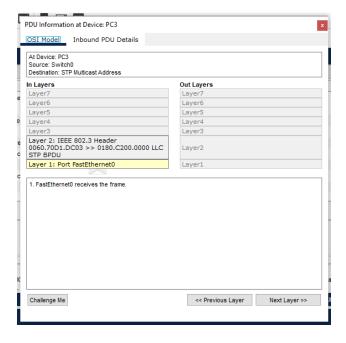
```
Laptop1
  Physical Config Desktop Programming Attributes
   Command Prompt
       IPv4 Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
       Default Gateway....:
                                             0.0.0.0
   C:\>ping 192.168.1.10
   Pinging 192.168.1.10 with 32 bytes of data:
   Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
   Ping statistics for 192.168.1.10:
   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
      192.168.1.10
                              000b.be96.eae2
                                                      dynamic
   C:\>ping 192.168.1.2
   Pinging 192.168.1.2 with 32 bytes of data:
   Reply from 192.168.1.2: bytes=32 time=10ms TTL=128
   Reply from 192.168.1.2: bytes=32 time<1ms TTL=128 Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
   Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
   Ping statistics for 192.168.1.2:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms
   C:\>arp -a
     Internet Address
                              Physical Address
                                                       Type
      192.168.1.2
                              0030.a3e8.88ad
                                                       dynamic
      192.168.1.10
                              000b.be96.eae2
                                                       dynamic
```

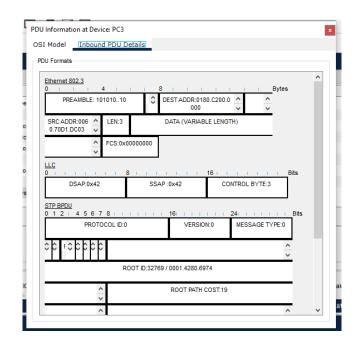
• Analysons les deux paquets (ICMP, STP)











## **CONCLUSION:**

J'ai appris les compétences nécessaires pour Créer un réseau, puis configurer les adresses IP, observer les tables ARP et analyser 2 des paquets en simulation.