



IUS
INSTITUT
UNIVERSITAIRE
DES SCIENCES

Faculté des Sciences et des Technologies

(FST)

Niveau : L3-FST

Cours : Réseaux 1

Soumis au chargé de cours : Ismaël SAINT AMOUR

Préparé par : Jameson DOMINIQUE

Date : 24 Octobre 2024

Contenu du rapport

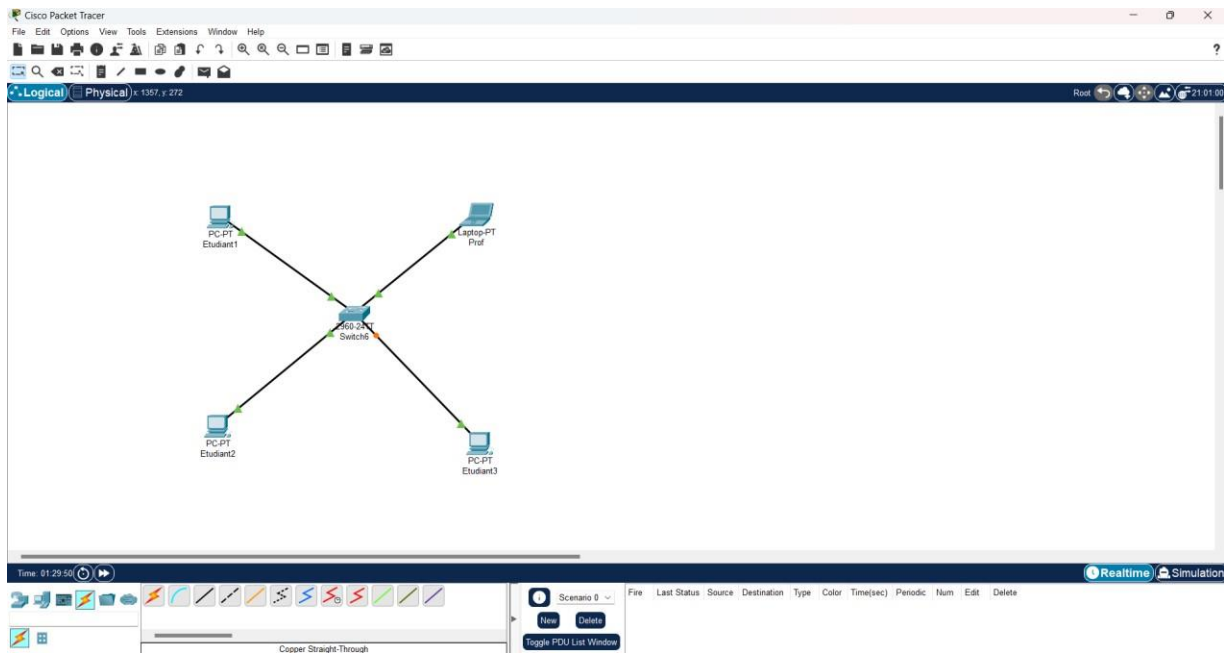
Le rapport doit inclure :

1. Une page de couverture.
2. Une description des résultats de la tâche.
3. Les résultats de l'exécution des commandes (captures d'écran).
4. Les conclusions sur la tâche accomplie.
5. Hébergez le rapport de travail au format Word et PDF, le fichier pkt, ainsi que les images sur GitHub.

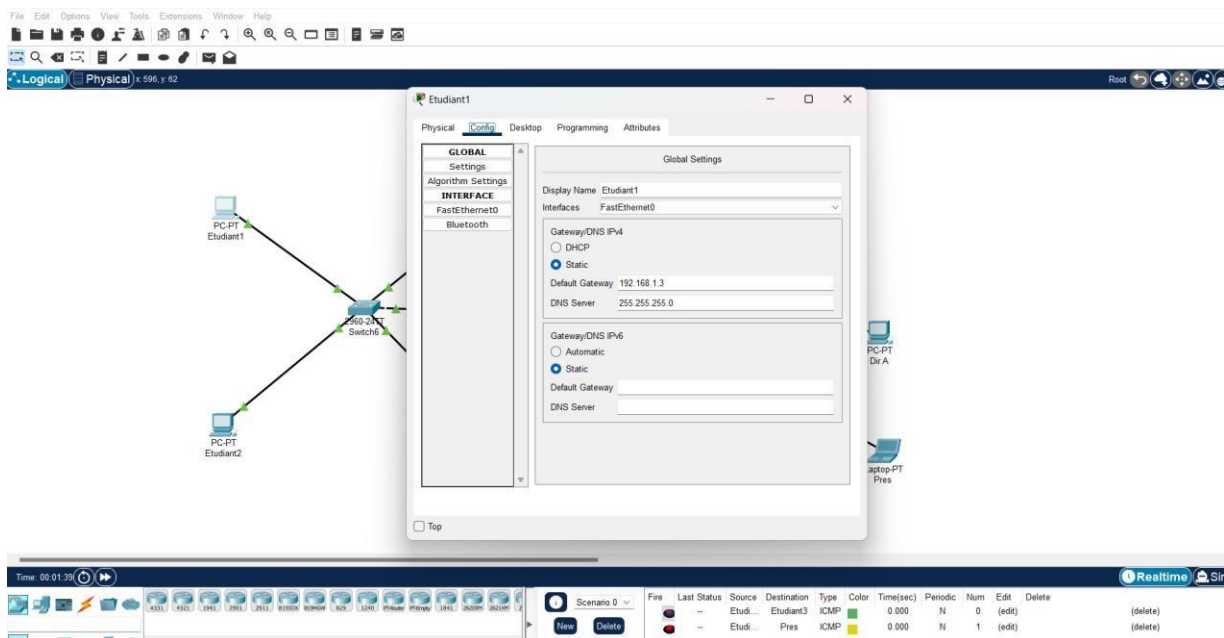
Réseaux 1

Exercices Pratiques :

Créer un réseau simple en utilisant la **topologie en étoile**



6.1 Configurer les Adresses IP des PC



Cisco Packet Tracer - C:\Users\Douda\Cisco Packet Tracer 8.2.0\saves\Exercice1_Jameson Dominique.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical 1334, y: 100

Prof

Physical Config Desktop Programming Attributes

GLOBAL Settings Algorithm Settings INTERFACE FastEthernet0 Bluetooth

Global Settings

Display Name Prof

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.2

DNS Server 255.255.255.0

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC-PT Etudiant1

PC-PT Etudiant2

Switch6

PC-PT Dr A

Laptop-PT Pres

Time: 00:03:26

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Etudi... Etudiant3 ICMP 0.000 N 0 (edit) (delete)

Etudi... Pres ICMP 0.000 N 1 (edit) (delete)

Toggle PDU List Window

Cisco Packet Tracer - C:\Users\Douda\Cisco Packet Tracer 8.2.0\saves\Exercice1_Jameson Dominique.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical 406, y: 14

Etudiant3

Physical Config Desktop Programming Attributes

GLOBAL Settings Algorithm Settings INTERFACE FastEthernet0 Bluetooth

Global Settings

Display Name Etudiant3

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.5

DNS Server 255.255.255.0

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC-PT Etudiant1

PC-PT Etudiant2

Switch6

PC-PT Dr A

Laptop-PT Pres

Time: 00:03:43

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Etudi... Etudiant3 ICMP 0.000 N 0 (edit) (delete)

Etudi... Pres ICMP 0.000 N 1 (edit) (delete)

Toggle PDU List Window

Cisco Packet Tracer - C:\Users\Douda\Cisco Packet Tracer 8.2.0\saves\Exercice1_Jameson Dominique.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical 61, y: 3

Etudiant2

Physical Config Desktop Programming Attributes

GLOBAL Settings Algorithm Settings INTERFACE FastEthernet0 Bluetooth

Global Settings

Display Name Etudiant2

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.4

DNS Server 255.255.255.0

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC-PT Etudiant1

PC-PT Etudiant2

Switch6

PC-PT Dr A

Laptop-PT Pres

Time: 00:03:57

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Etudi... Etudiant3 ICMP 0.000 N 0 (edit) (delete)

Etudi... Pres ICMP 0.000 N 1 (edit) (delete)

Toggle PDU List Window

Cisco Packet Tracer - C:\Users\Douda\Cisco Packet Tracer 8.2.0\saves\Exercice1_Jameson Dominique.pkt

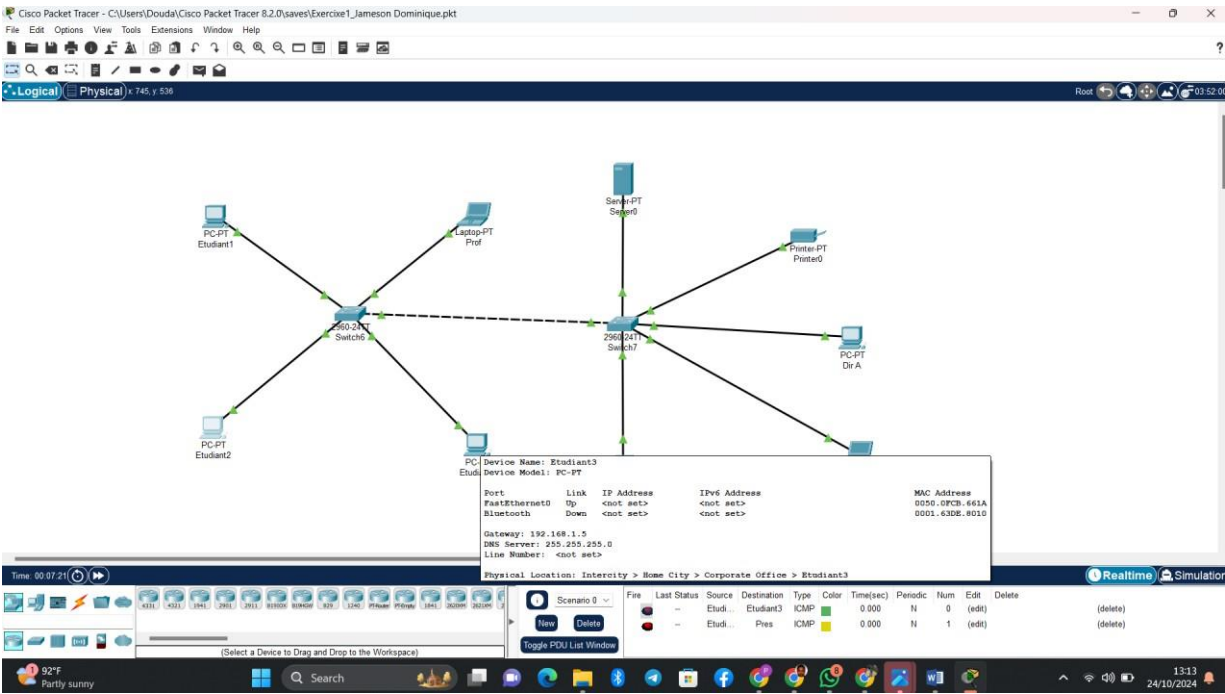
File Edit Options View Tools Extensions Window Help

Logical Physical 61, y: 3

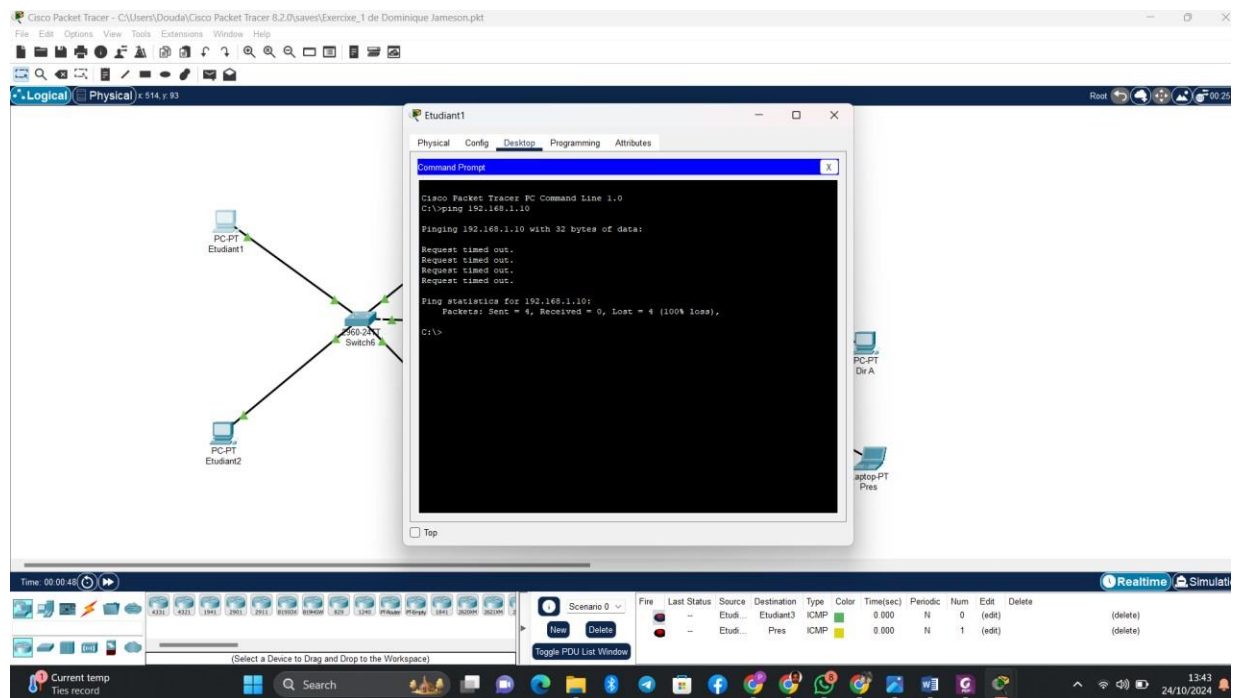
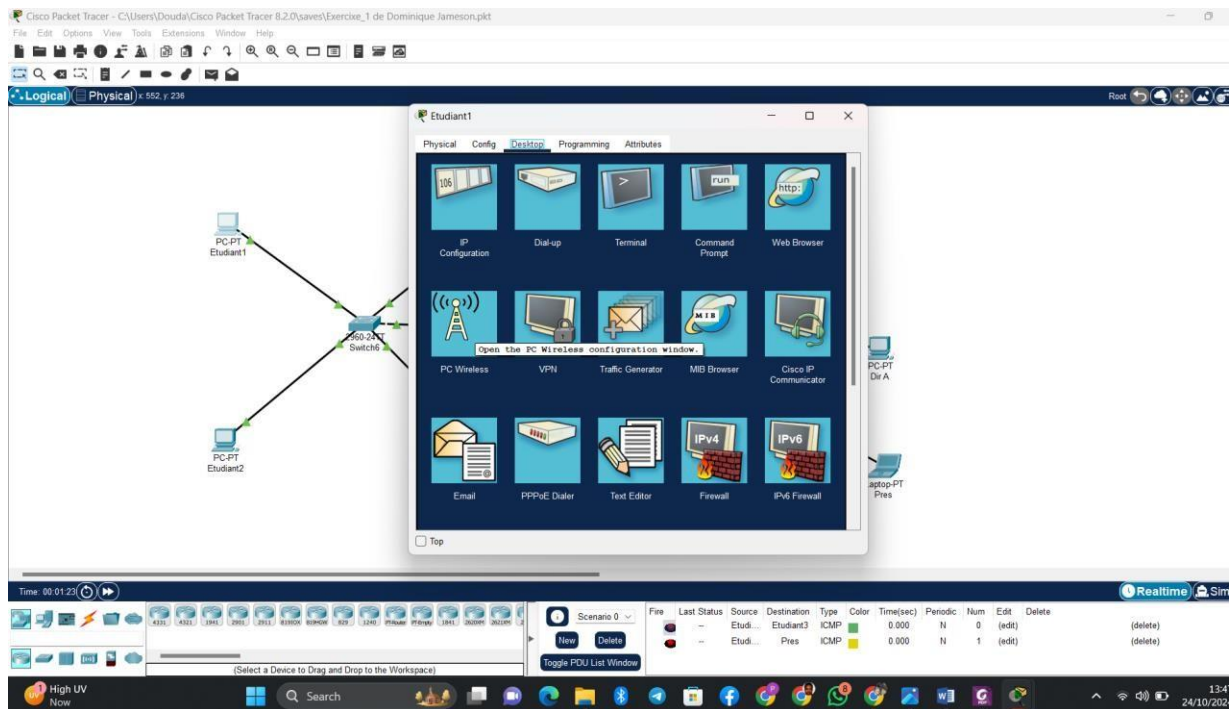
- Configurez les adresses IP comme suit (exemple pour un sous-réseau 192.168.1.0/24) :

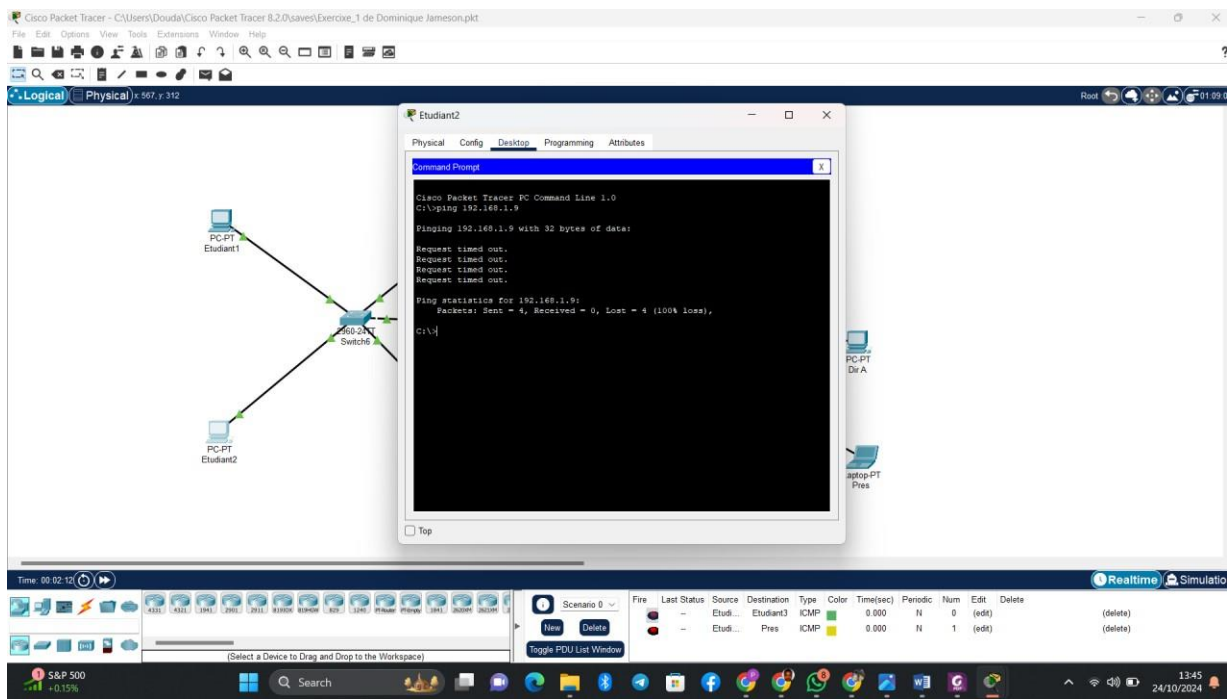
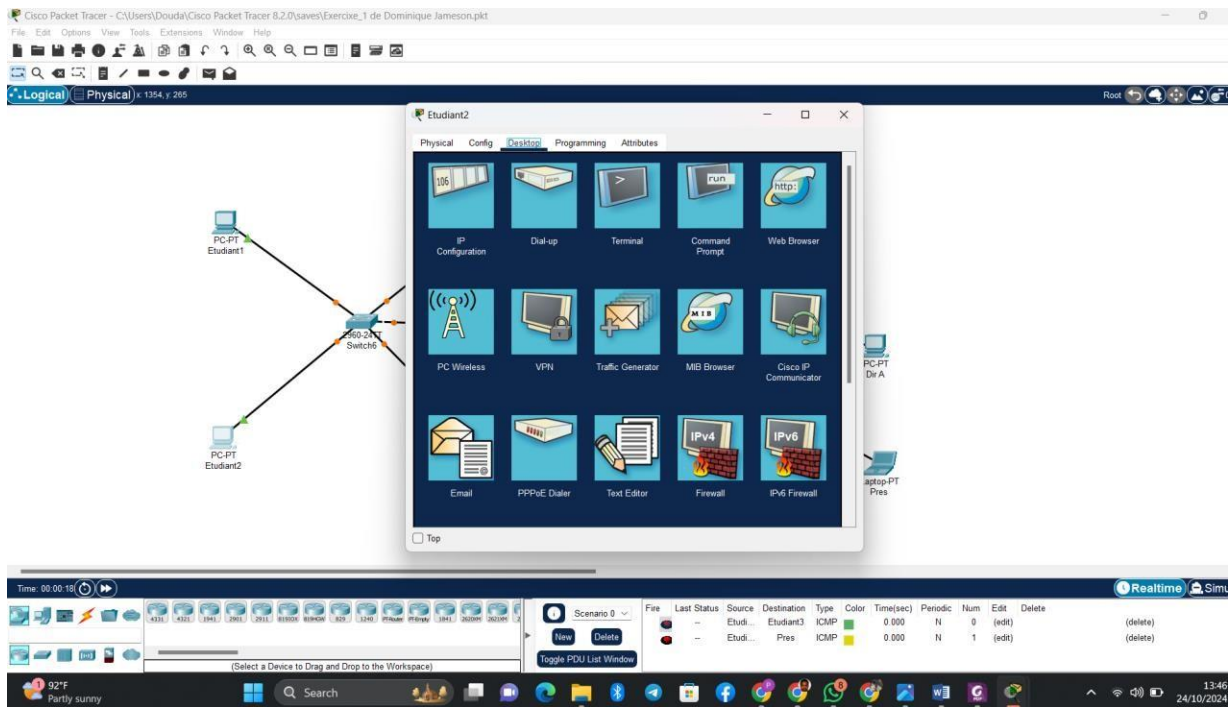
PC	Adresse IP	Masque de Sous-Réseau
Prof	192.168.1.2	255.255.255.0
Etudiant1	192.168.1.3	255.255.255.0
Etudiant2	192.168.1.4	255.255.255.0
Etudiant3	192.168.1.5	255.255.255.0

Remarque : Assurez-vous que chaque PC a une adresse IP unique dans le même sous-réseau.

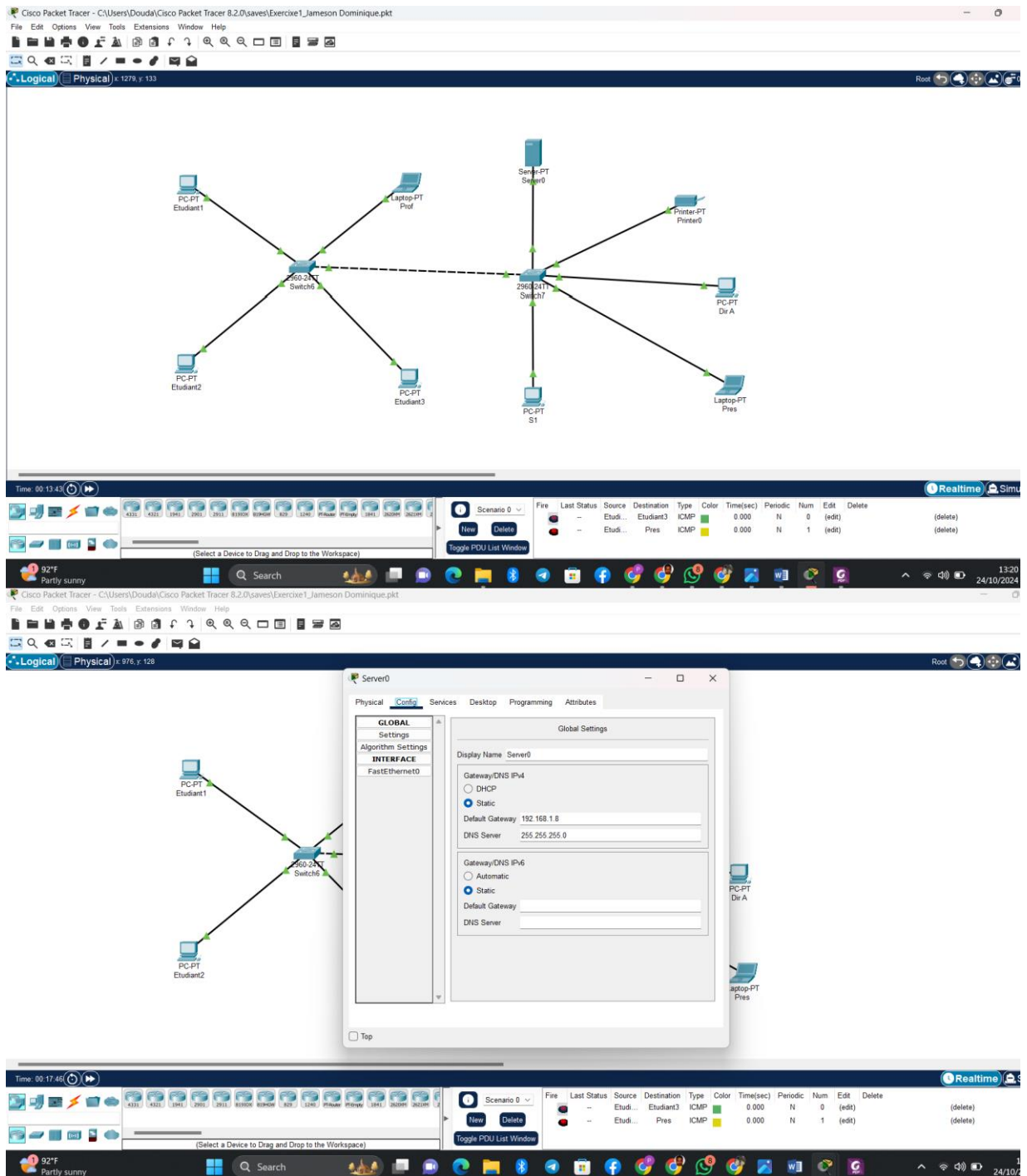


Vérification de la Connectivité





Un réseau plus complexe



Cisco Packet Tracer - C:\Users\Doula\Cisco Packet Tracer 8.2.0\saves\Exercise1_Jameson Dominique.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 179, y 37

Printer0

Physical Config Attributes

GLOBAL Settings

INTERFACE FastEthernet0

Global Settings

Display Name Printer0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.7

DNS Server 255.255.255.0

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC-PT Etudiant1

Switch6

PC-PT Etudiant2

PC-PT Dir A

laptop-PT Pres

Time 00:10:04

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Etudi... Etudi... ICMP 0.000 N 0 (edit) (delete)

Etudi... Pres ICMP 0.000 N 1 (edit) (delete)

Toggle PDU List Window

92°F Partly sunny

Search

Cisco Packet Tracer - C:\Users\Doula\Cisco Packet Tracer 8.2.0\saves\Exercise1_Jameson Dominique.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 1320, y 367

Dir A

Physical Config Desktop Programming Attributes

GLOBAL Settings

Algorithm Settings

INTERFACE FastEthernet0 Bluetooth

Global Settings

Display Name Dir A

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.9

DNS Server 255.255.255.0

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC-PT Etudiant1

Switch6

PC-PT Etudiant2

PC-PT Dir A

laptop-PT Pres

Time 00:10:17

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Etudi... Etudi... ICMP 0.000 N 0 (edit) (delete)

Etudi... Pres ICMP 0.000 N 1 (edit) (delete)

Toggle PDU List Window

92°F Partly sunny

Search

Cisco Packet Tracer - C:\Users\Doula\Cisco Packet Tracer 8.2.0\saves\Exercise1_Jameson Dominique.pkt

File Edit Options View Tools Extensions Window Help

Logical Physical x 369, y 1

Pres

Physical Config Desktop Programming Attributes

GLOBAL Settings

Algorithm Settings

INTERFACE FastEthernet0 Bluetooth

Global Settings

Display Name Pres

Interfaces FastEthernet0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.1.10

DNS Server 255.255.255.0

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

PC-PT Etudiant1

Switch6

PC-PT Etudiant2

PC-PT Dir A

laptop-PT Pres

Time 00:10:31

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Etudi... Etudi... ICMP 0.000 N 0 (edit) (delete)

Etudi... Pres ICMP 0.000 N 1 (edit) (delete)

Toggle PDU List Window

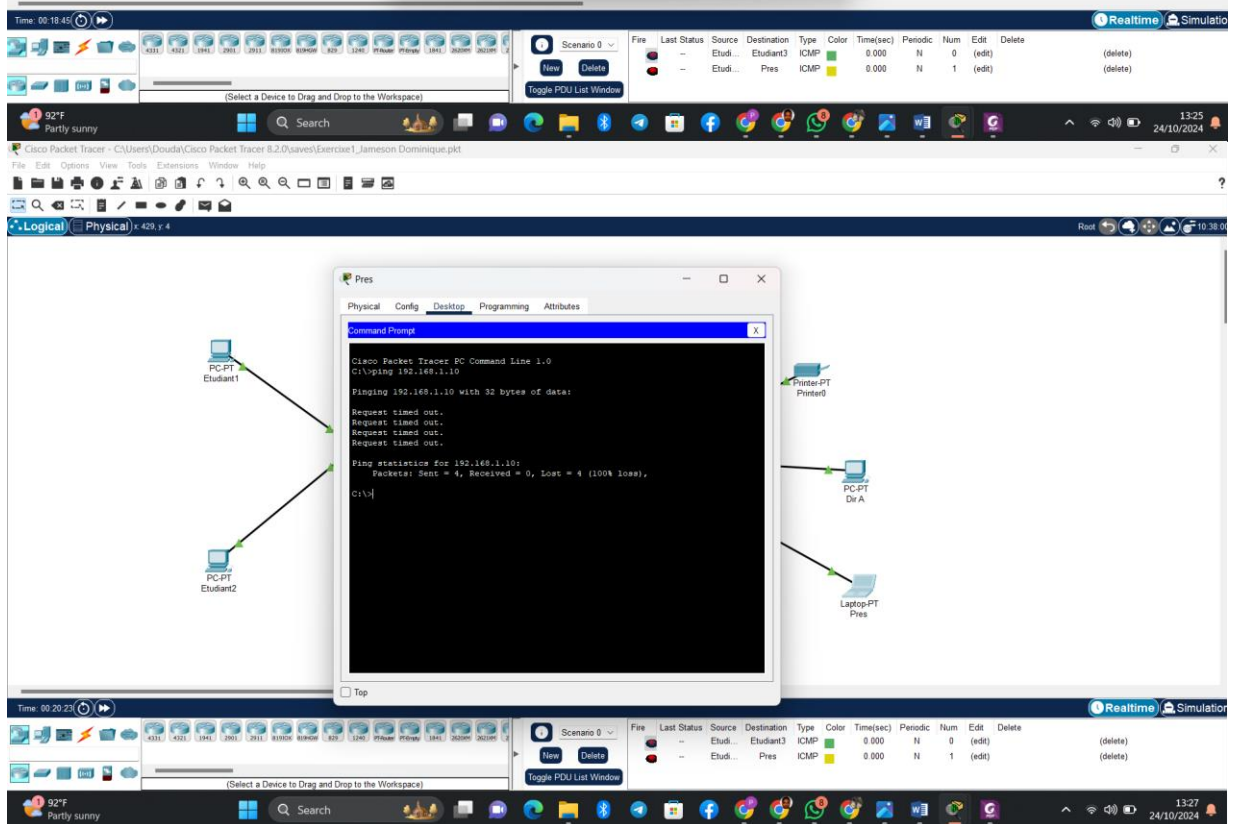
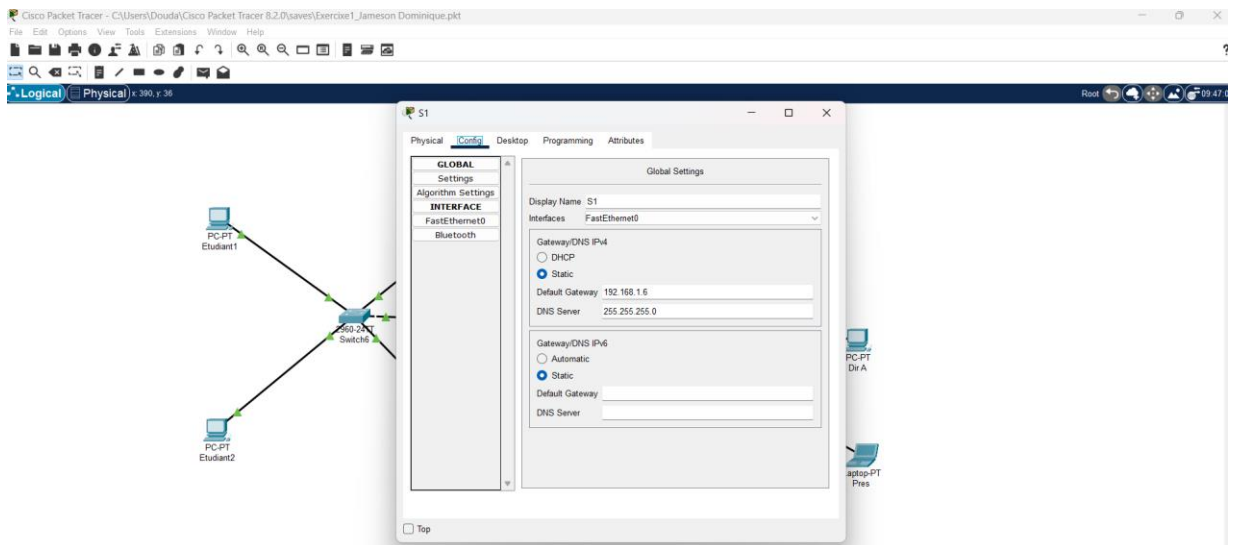
92°F Partly sunny

Search

Cisco Packet Tracer - C:\Users\Doula\Cisco Packet Tracer 8.2.0\saves\Exercise1_Jameson Dominique.pkt

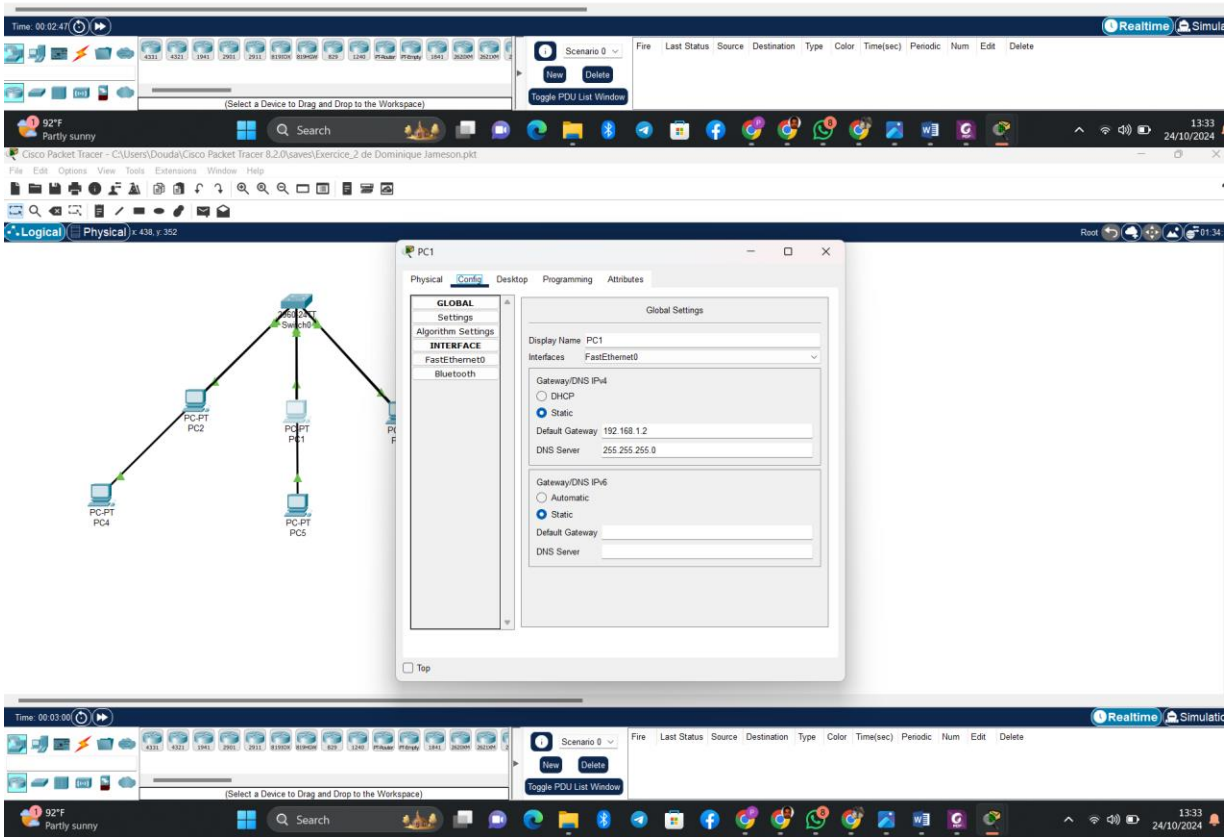
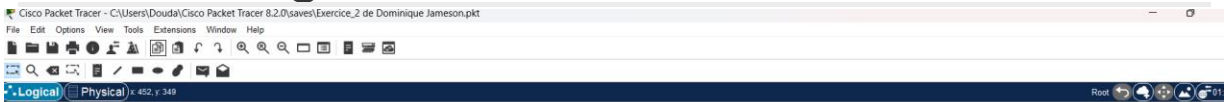
File Edit Options View Tools Extensions Window Help

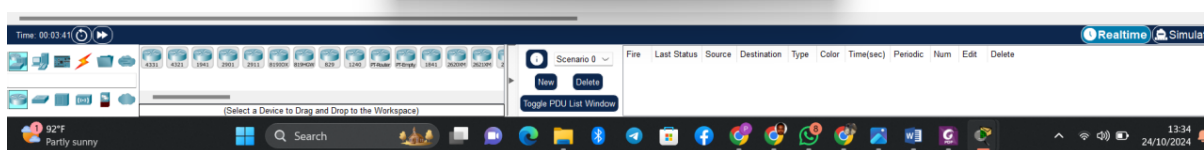
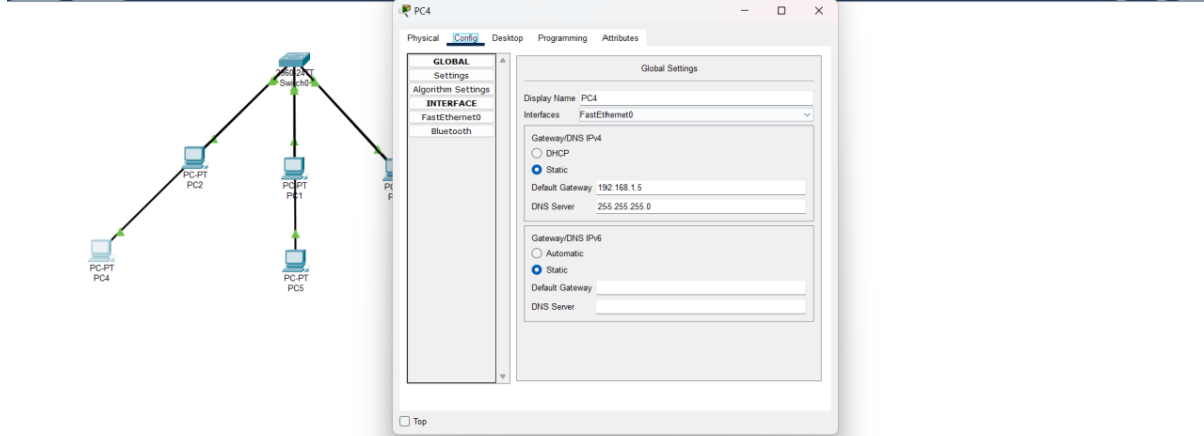
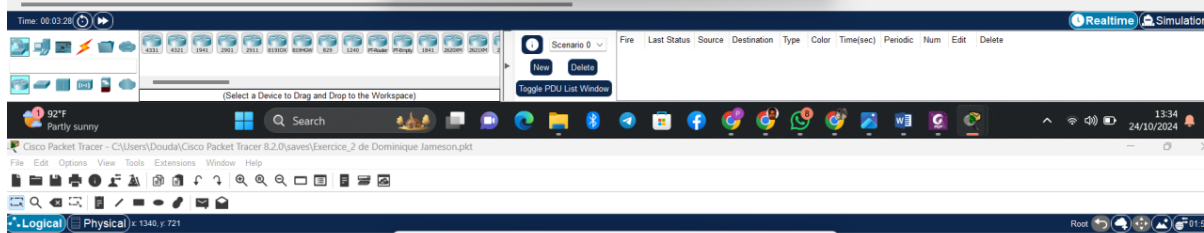
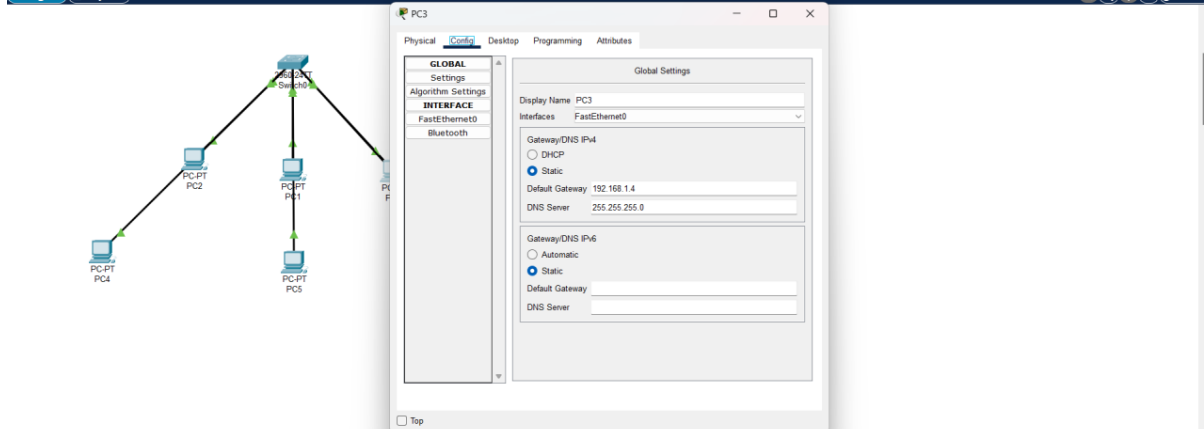
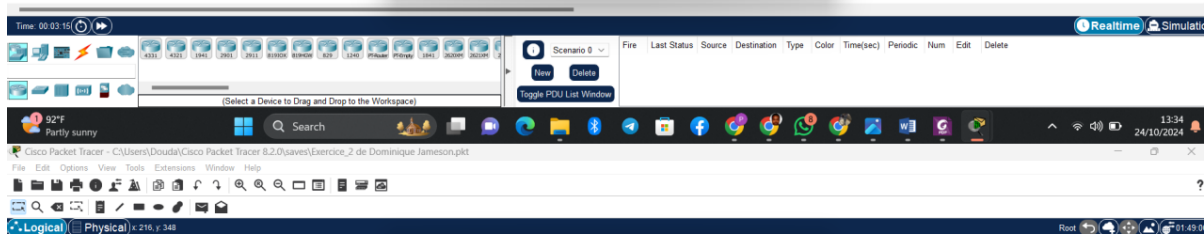
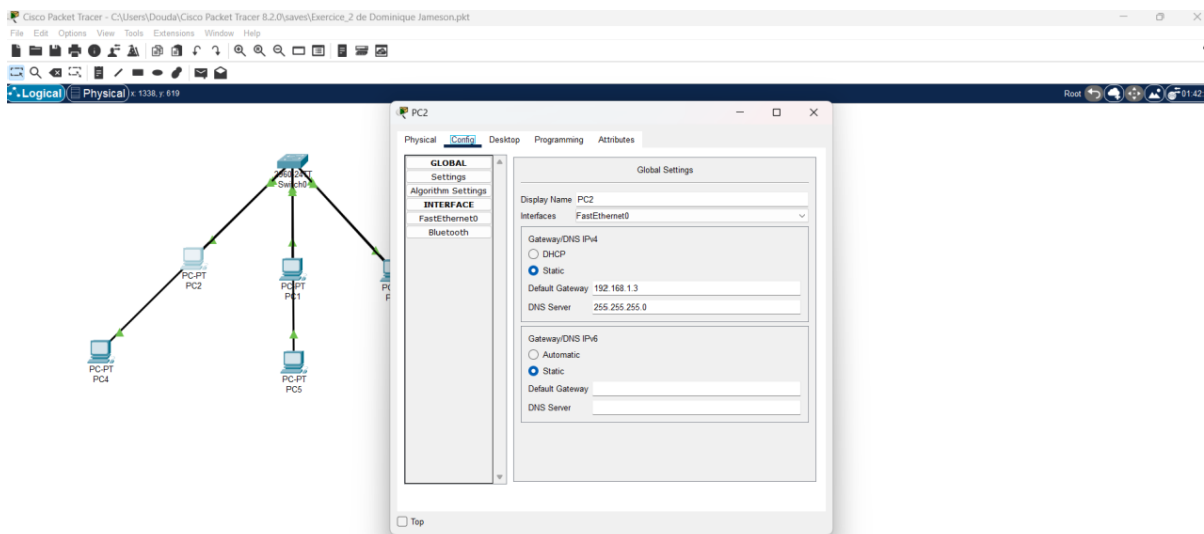
Logical Physical x 369, y 1

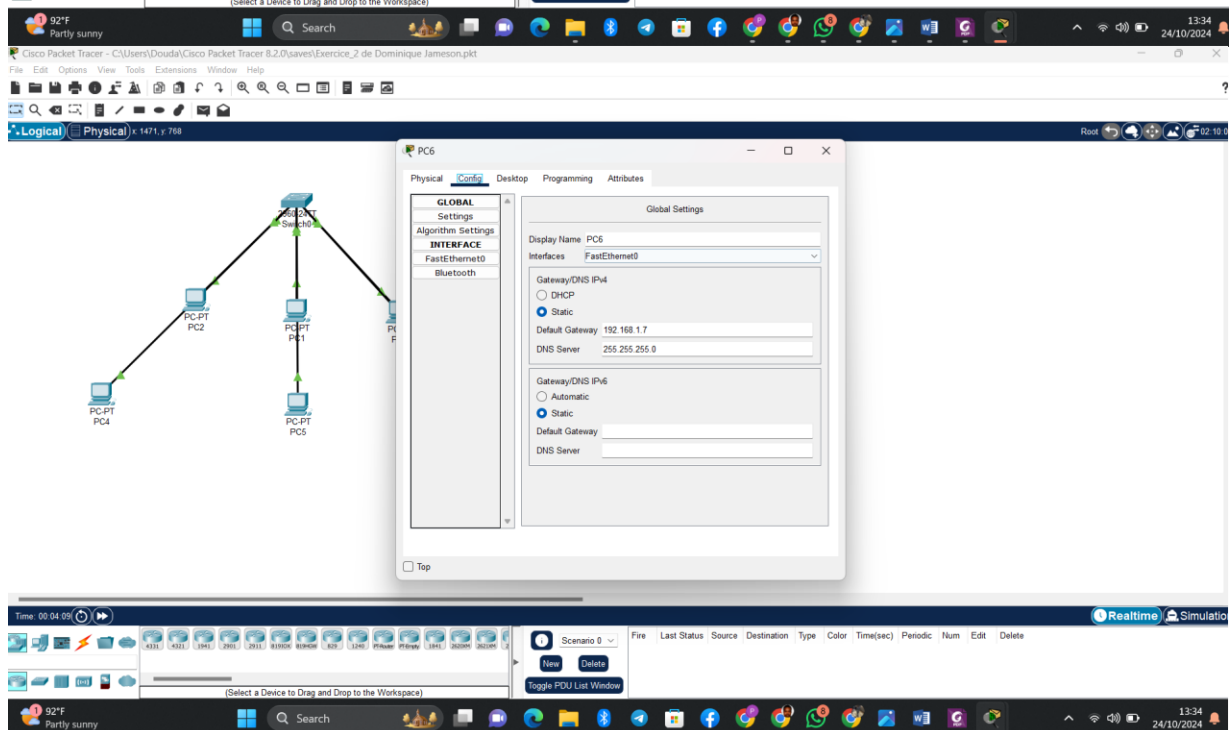
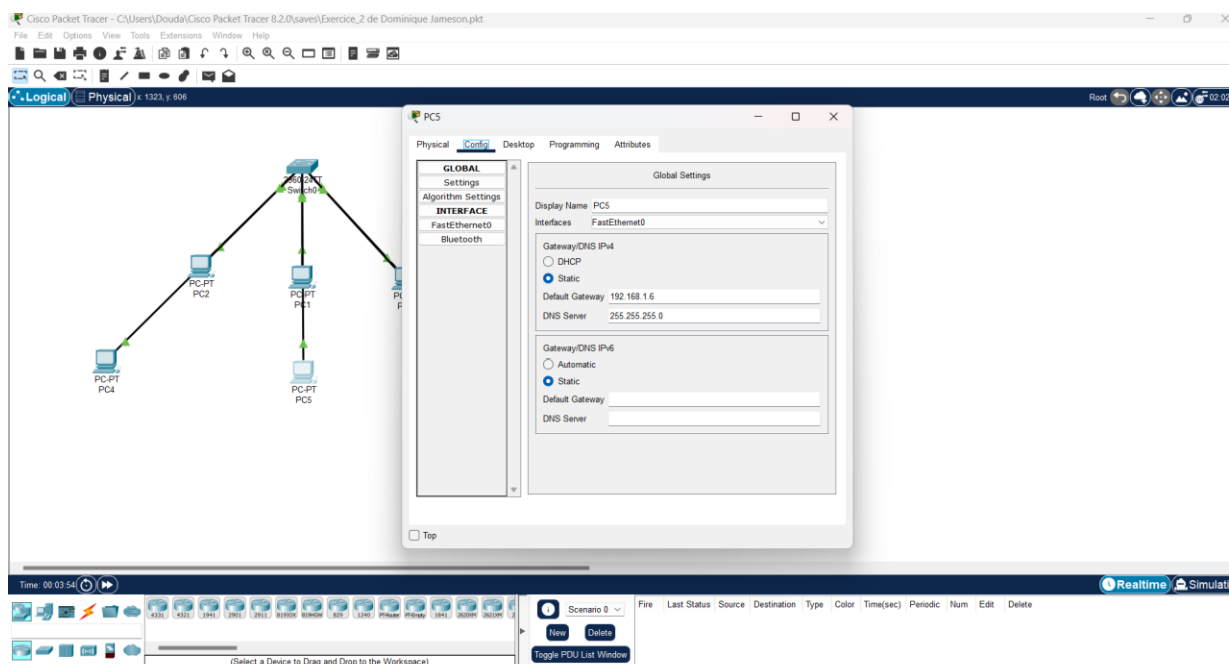


Appareils	Adresse IP	Masque de Sous-Réseau
Server	192.168.1.8	255.255.255.0
Printer	192.168.1.7	255.255.255.0
Pres	192.168.1.10	255.255.255.0
S1	192.168.1.6	255.255.255.0
Dir A	192.168.1.9	255.255.255.0

Travaux Dirigés Cisco Packet Tracer







PC	Adresse IP	Masque de Sous-Réseau
PC1	192.168.1.2	255.255.255.0
PC2	192.168.1.3	255.255.255.0
PC3	192.168.1.4	255.255.255.0
PC4	192.168.1.5	255.255.255.0
PC5	192.168.1.6	255.255.255.0
PC6	192.168.1.7	255.255.255.0

Vérification de la Connectivité

The image displays two screenshots of the Cisco Packet Tracer interface, illustrating network connectivity tests in a simulated environment.

Top Screenshot:

- The network diagram shows a central switch connected to four PCs: PC2, PC1, PC4, and PC5.
- The PC2 configuration window is open, showing the Command Prompt output of a ping test to 192.168.1.7.
- The Command Prompt output indicates that the ping failed, showing "Request timed out." and "Ping statistics for 192.168.1.7: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)." The status bar at the bottom shows "Realtime Simulation" and "Scenario 0".

Bottom Screenshot:

- The network diagram is identical to the top screenshot.
- The PC3 configuration window is open, showing the Command Prompt output of a ping test to 192.168.1.6.
- The Command Prompt output indicates that the ping failed, showing "Request timed out." and "Ping statistics for 192.168.1.6: Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)." The status bar at the bottom shows "Realtime Simulation" and "Scenario 0".