

Institut universitaire des sciences
(IUS)

Faculté des sciences et des technologies
(FST)

TD 4 – Réseaux I

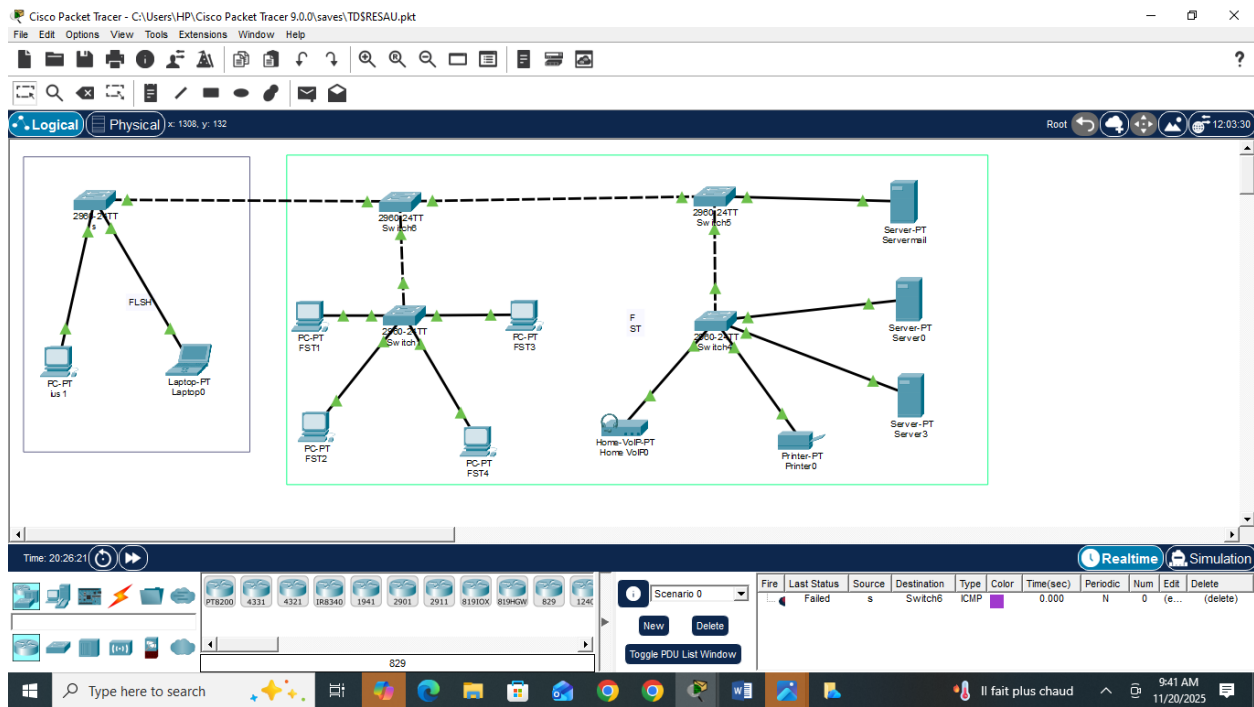
Nom & Prénom : Evena leamande

Niveau : L3/FST

Date : le /20/11/25

L'objectif de ce devoir : est de créer et configurer les différents appareils (PC, switch, routeur, serveurs) dans Cisco packet.

ce travail me permet aussi d'apprendre à tester la connexion, organiser une topologie, et vérifier que tout le réseau fonctionne correctement.



La présentation de la première figure

```
-----
*      1 26      WS-C2960-24TT-L      15.0(2)SE4      C2960-LANBASEK9-M
```

```
Cisco IOS Software, C2960 Software (C2960-LANBASEK9-M), Version 15.0(2)SE4, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 26-Jun-13 02:49 by mnnguyen
```

```
Press RETURN to get started!
```

```
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

```
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
```

```
Switch>enable
```

```
Switch#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Switch(config)#hostname FLSH
```

```
FLSH(config)#interface vlan 1
```

```
FLSH(config-if)#ip address 192.168.1.1 255.255.255.0
```

```
Bad mask 0xFFE1FF00 for address 192.168.1.1
```

```
FLSH(config-if)#no shutdown
```

```
FLSH(config-if)#
```

```
%LINK-3-UPDOWN: Interface Vlan1, changed state to down
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
```

```
exit
```

```
FLSH(config)#end
```

```
FLSH#
```

```
%SYS-5-CONFIG_I: Configured from console by console
```

```
FLSH#|
```



J'ai configure le switch 1

```
ius1
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
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=31ms TTL=128
Reply from 192.168.1.2: bytes=32 time=22ms 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 = 1ms, Maximum = 31ms, Average = 13ms

C:\>ping 2001:db8:1::2

Pinging 2001:db8:1::2 with 32 bytes of data:

Reply from 2001:DB8:1::2: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::2: bytes=32 time<1ms TTL=128

Ping statistics for 2001:DB8:1::2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

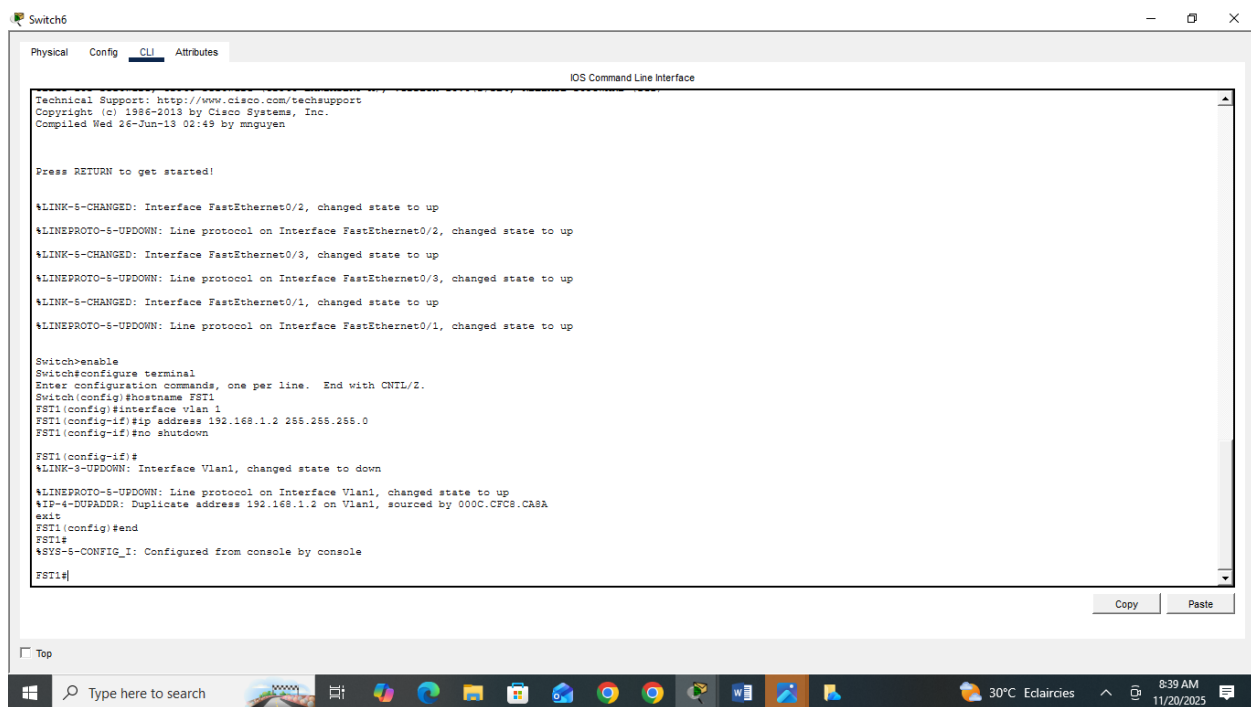
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time=4ms 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 = 0ms, Maximum = 4ms, Average = 1ms
```

IPV4 et IPV6 pour PC1 et 2



```
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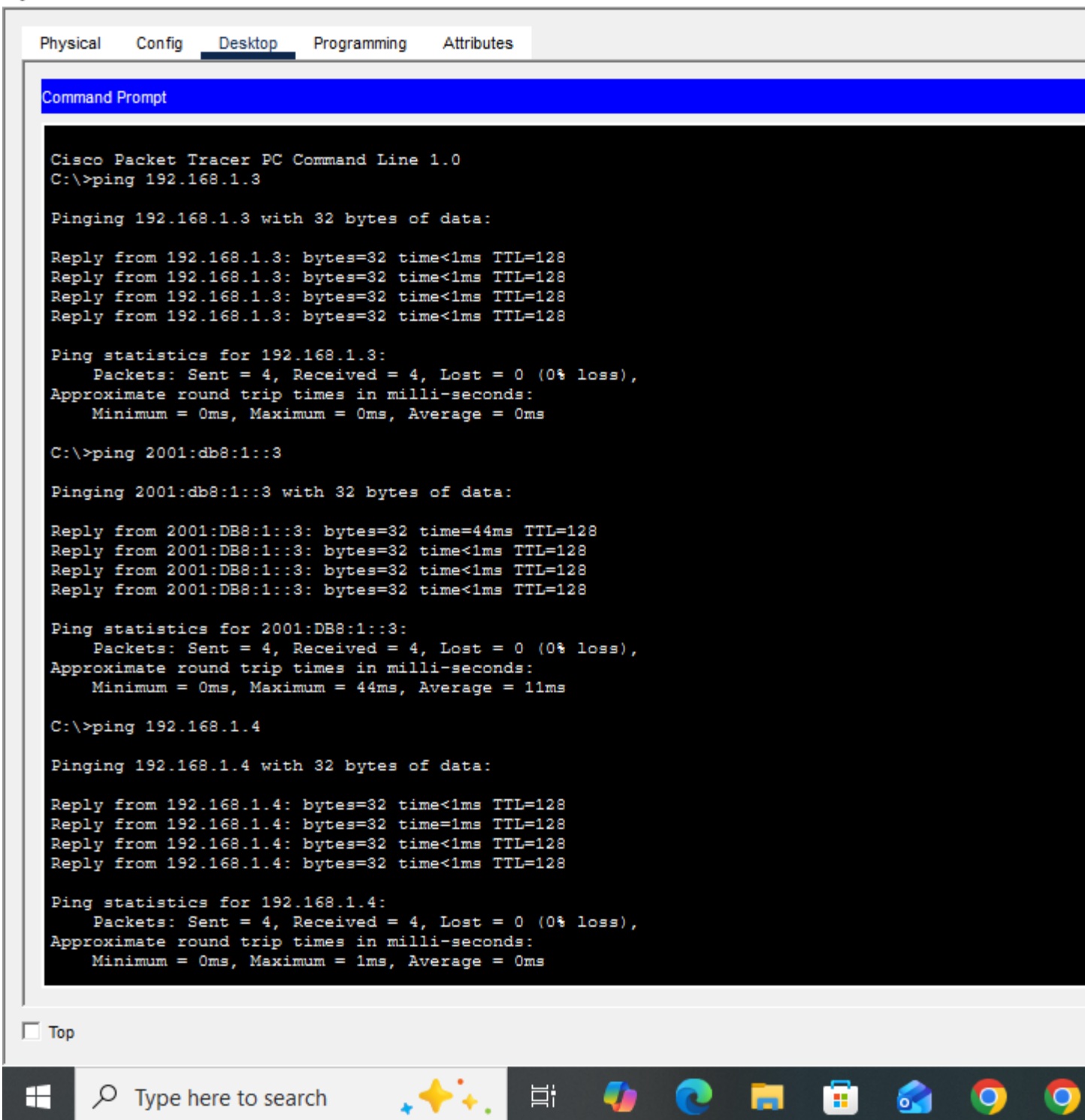
Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

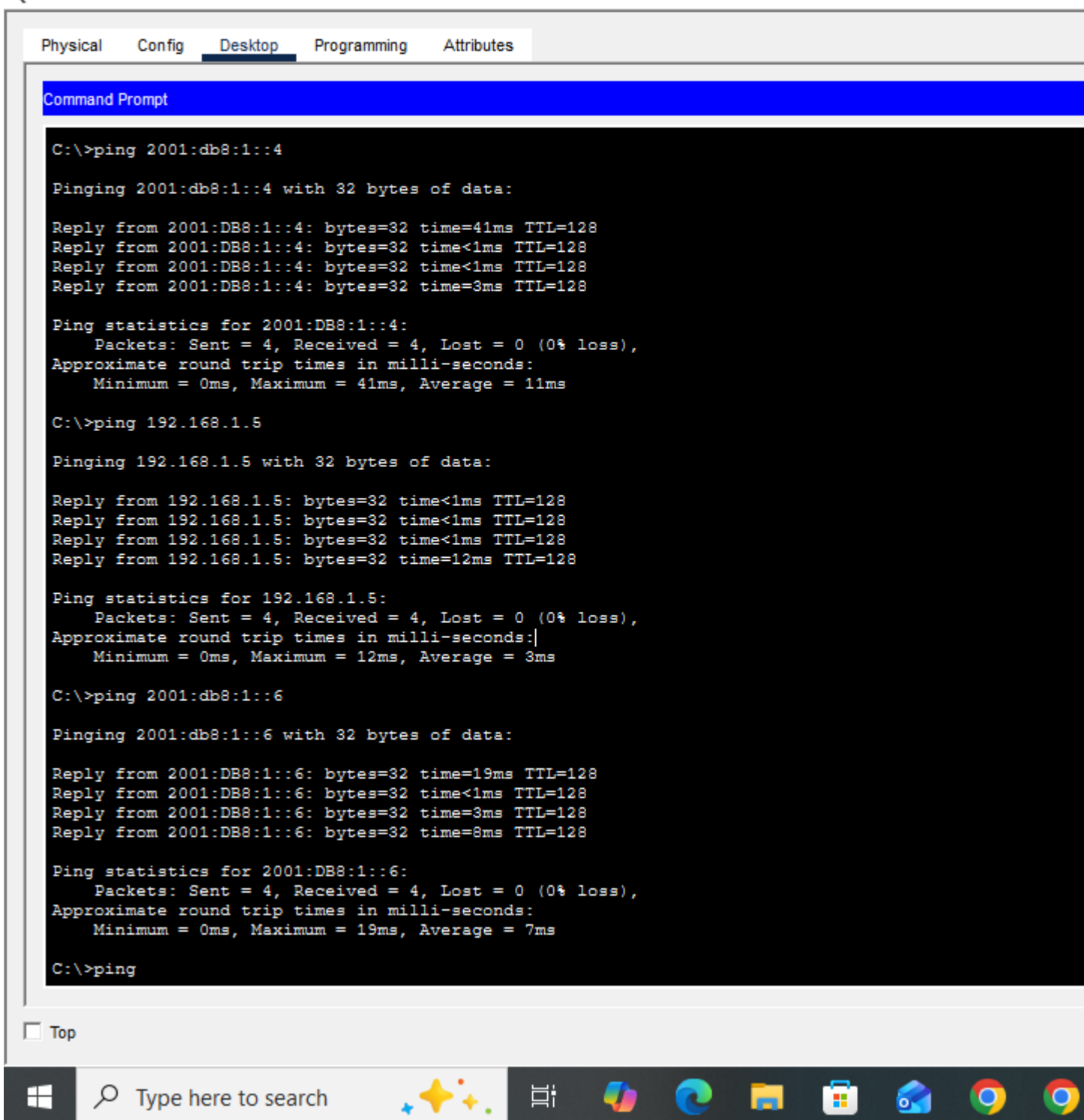
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname FST1
FST1(config)#interface vlan 1
FST1(config-if)#ip address 192.168.1.2 255.255.255.0
FST1(config-if)#no shutdown

FST1(config-if)#
%LINK-5-UPDOWN: Interface Vlan1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.1.2 on Vlan1, sourced by 000C.CF08.CA8A
0x10
FST1(config)#end
FST1#
%SYS-5-CONFIG_I: Configured from console by console
FST1#
```

Configuration pour le switch2



IPV4 et IPV6 pour PC 3 et 4



Switch5

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname belle-anse
belle-anse(config)#interface vlan 1
belle-anse(config-if)#ip address 192.168.1.255.255.255.0
^
% Invalid input detected at '^' marker.

belle-anse(config-if)#ip address 192.168.1.3 255.255.255.0
belle-anse(config-if)#no shutdown

belle-anse(config-if)#
%LINK-3-UPDOWN: Interface Vlan1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.1.3 on Vlan1, sourced by 000C.85C3.E600
exit
belle-anse(config)#ip default-gateway 192.168.1.255
belle-anse(config)#end
belle-anse#
%SYS-5-CONFIG_I: Configured from console by console

belle-anse#
belle-anse#
belle-anse#
belle-anse#
```

☐ Top



Type here to search



Configuration pour le switch 3

Switch4

Physical Config CLI Attributes

IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/5, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/5, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/4, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to up

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname JACMEL
JACMEL(config)#interface vlan 1
JACMEL(config-if)#ip address 192.168.1.4 255.255.255.0
JACMEL(config-if)#no shutdown

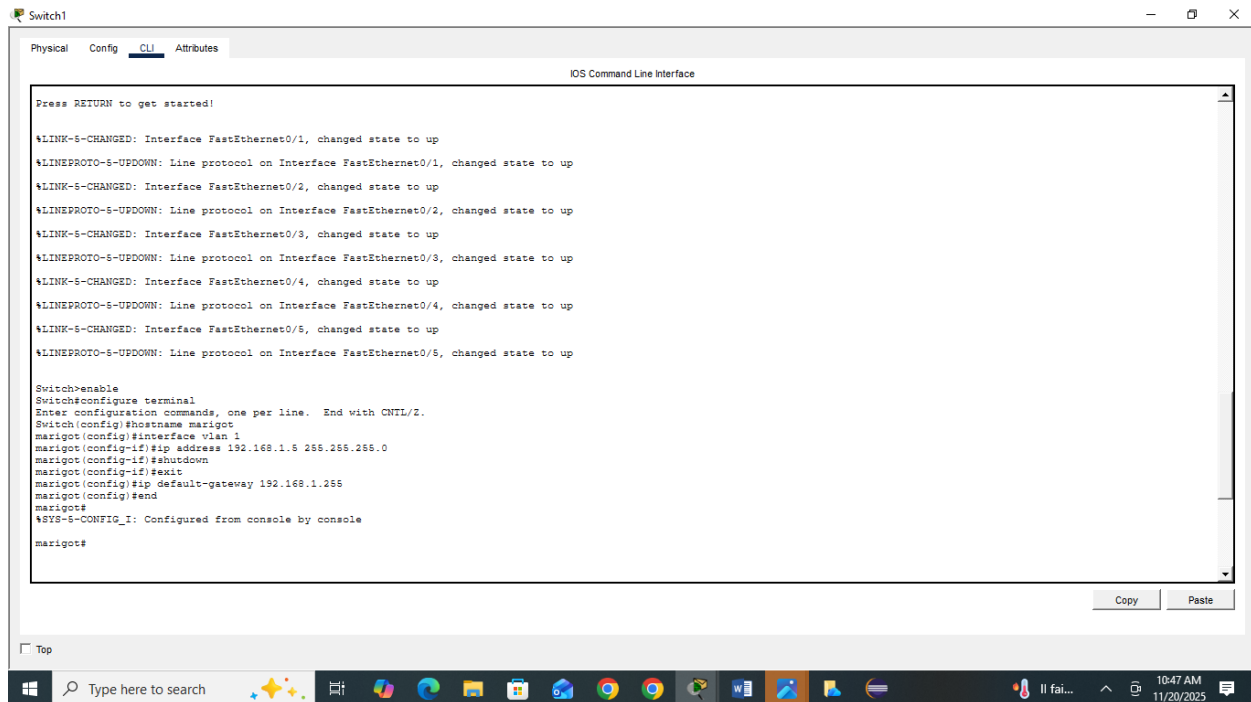
JACMEL(config-if)#
%LINK-3-UPDOWN: Interface Vlan1, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.1.4 on Vlan1, sourced by 0009.7CD0.3CD9
exit
JACMEL(config)#ip default-gateway 192.168.1.255
JACMEL(config)#end
JACMEL#
%SYS-5-CONFIG_I: Configured from console by console
```

☐ Top



Configuration pour le switch4



Configuration pour le switch 5

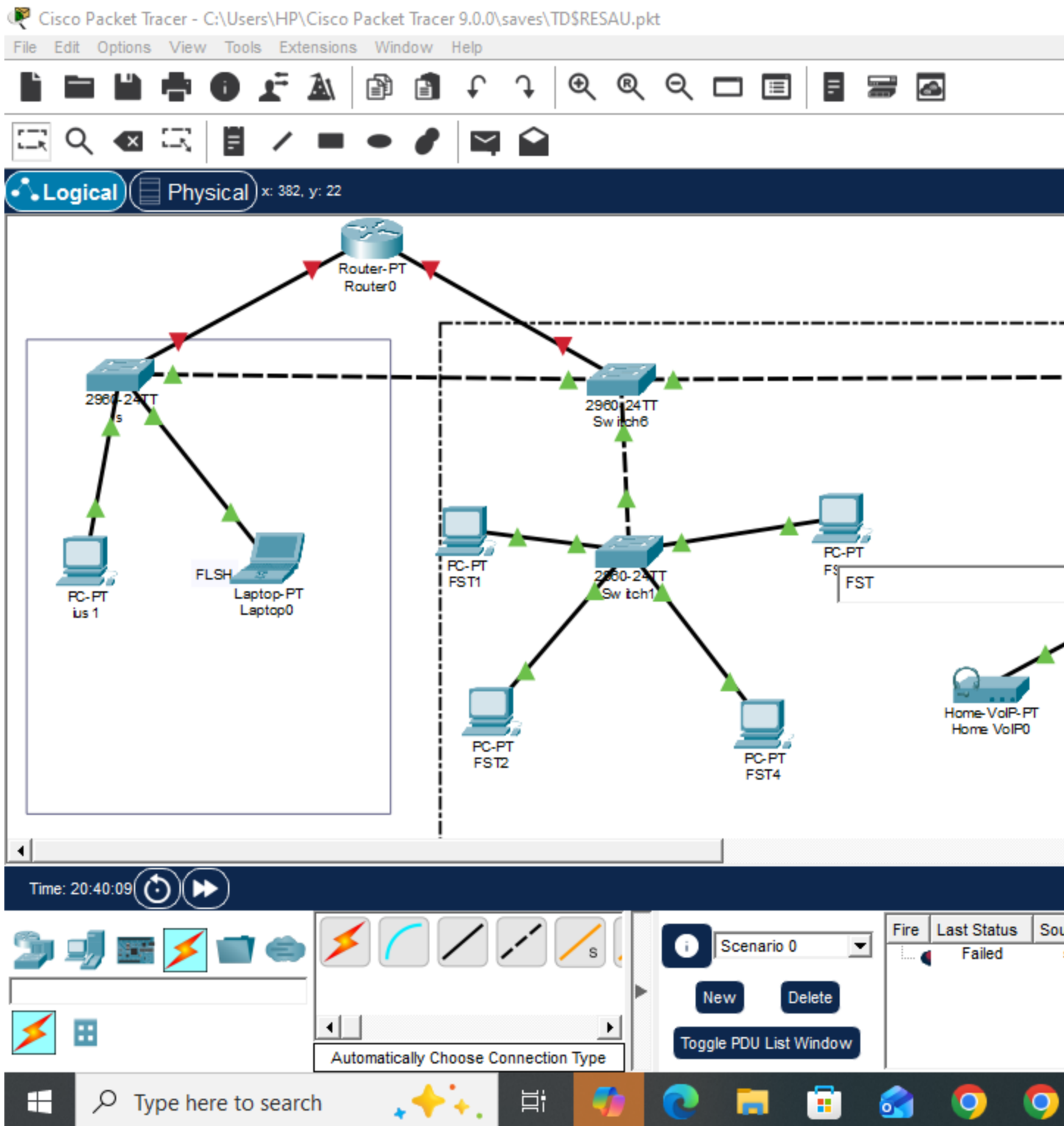


Figure 2

```
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]: enable
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]: configure terminal
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]:
Press RETURN to get started!

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#hostname router 1
      ^
% Invalid input detected at '^' marker.

Router(config)#hostname rout1
rout1(config)#interface FastEthernet0/0
rout1(config-if)#ip address 192.168.1.1 255.255.255.0
rout1(config-if)#no shutdown

rout1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
rout1(config)#end
rout1#
%SYS-5-CONFIG_I: Configured from console by console
```

Conclusion : En faisant ce devoir, j'ai mieux compris comment fonctionne un réseau informatique. J'ai appris à connecter les appareils, à vérifier la communication entre eux et à analyser les problèmes,

Ce travail m'a aidé à mieux connaître la topologie et bien renforcer mes connaissances en topologie réseau.