

**Institut universitaire des sciences
(IUS)**

Faculté des sciences et des technologies

(FST)

TD 4 – Réseaux I

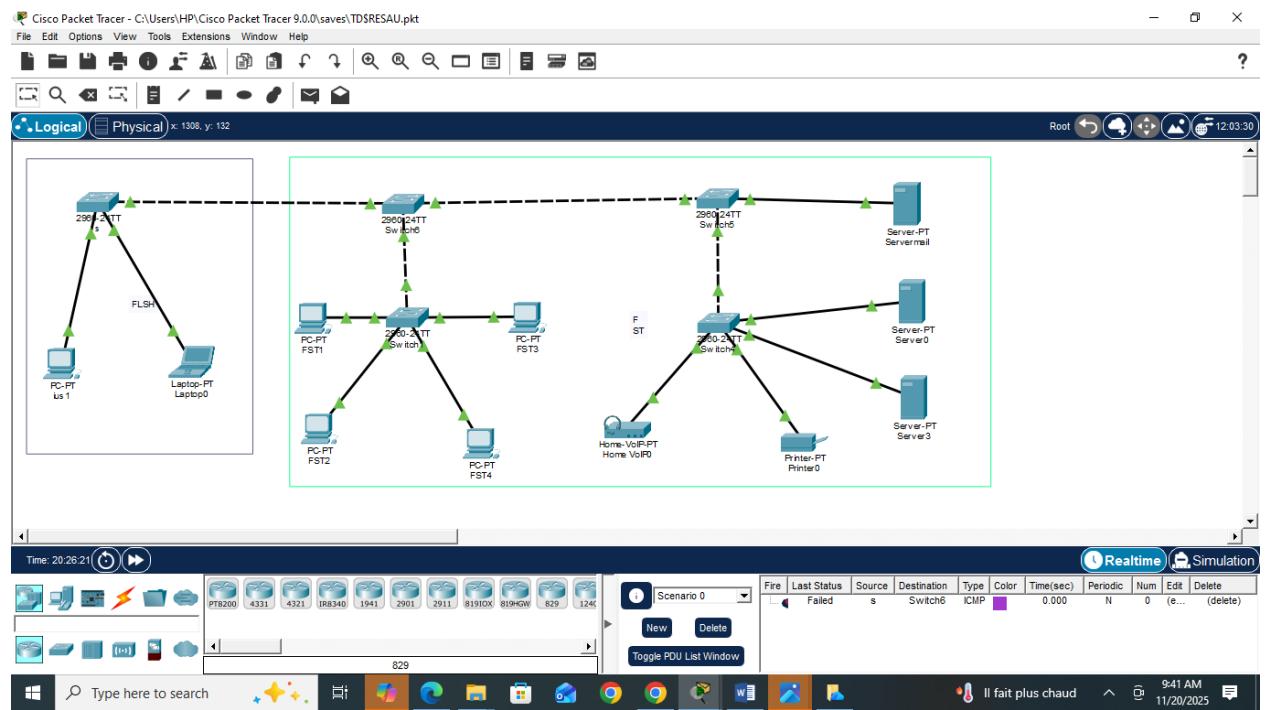
Nom & Prénom : Evena leamande

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

Switch6

Physical Config CLI Attributes

IOS Command Line Interface

```
-----  
* 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#|
```

Top



Type here to search



J'ai configuré le switch 1

The screenshot shows a Windows desktop environment. At the top, there is a taskbar with various icons. Below the taskbar is a window titled "ius1" which contains a "Command Prompt" tab. The command prompt window displays several ping commands and their results:

```
Cisco Packet Trace 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<1ms 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

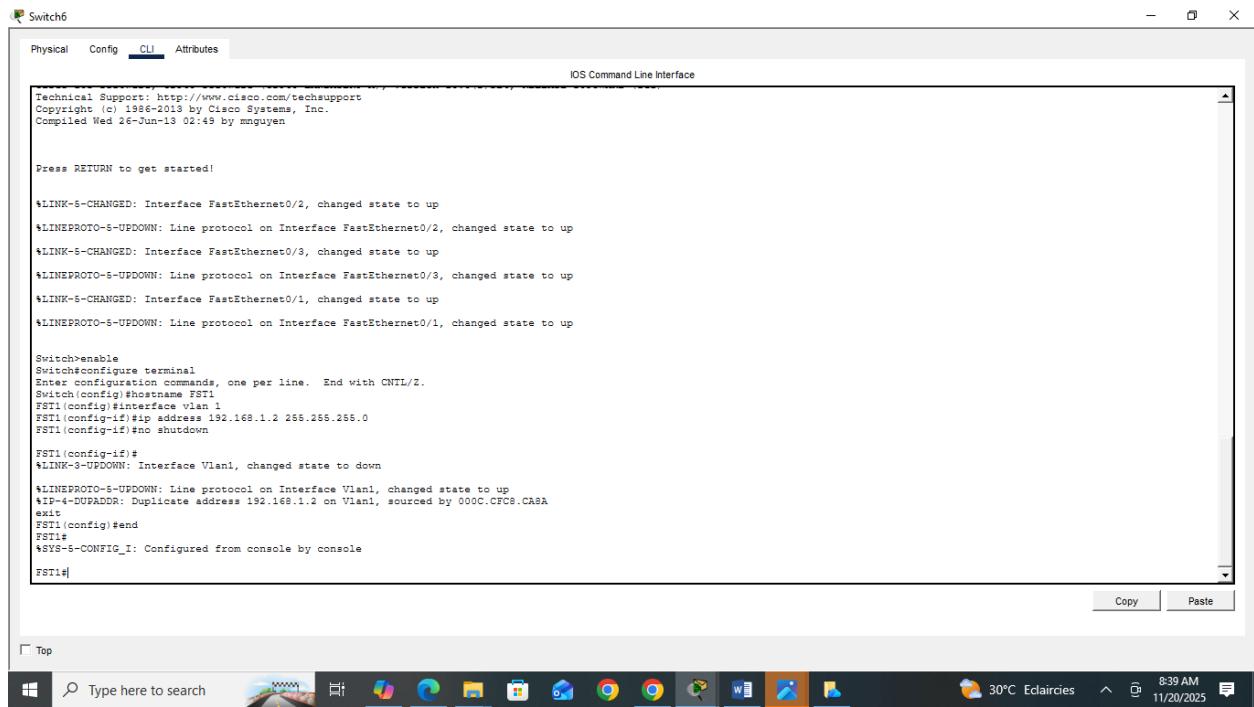
Ping statistics for 2001:DB8:1::2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

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



The screenshot shows a Windows desktop environment with a Cisco IOS Command Line Interface (CLI) window titled "Switch6". The window has tabs for Physical, Config, CLI, and Attributes, with CLI selected. The title bar also displays "IOS Command Line Interface".

The CLI output shows the following configuration and interface status:

```
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed Jun 26 02:49 by mnnguyen

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-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 192.168.1.2 on Vlan1, sourced by 000C.CFC8.CASA
FST1(config)#end
FST1#
SYS-5-CONFIG_I: Configured from console by console
FST1#
```

At the bottom of the window are "Copy" and "Paste" buttons. The taskbar at the bottom of the screen shows various application icons and the system clock indicating 8:39 AM on 11/20/2025.

Configuration pour le switch2



Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
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 = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 2001:db8:1::3

Pinging 2001:db8:1::3 with 32 bytes of data:

Reply from 2001:DB8:1::3: bytes=32 time=44ms TTL=128
Reply from 2001:DB8:1::3: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::3: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::3: bytes=32 time<1ms TTL=128

Ping statistics for 2001:DB8:1::3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 44ms, Average = 11ms

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<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time=1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms TTL=128
Reply from 192.168.1.4: bytes=32 time<1ms 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 = 0ms, Maximum = 1ms, Average = 0ms
```

Top



Type here to search



IPV4 et IPV6 pour PC 3 et 4



Physical Config Desktop Programming Attributes

Command Prompt

```
C:\>ping 2001:db8:1::4
Pinging 2001:db8:1::4 with 32 bytes of data:
Reply from 2001:DB8:1::4: bytes=32 time=41ms TTL=128
Reply from 2001:DB8:1::4: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::4: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::4: bytes=32 time=3ms TTL=128

Ping statistics for 2001:DB8:1::4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 41ms, Average = 11ms

C:\>ping 192.168.1.5
Pinging 192.168.1.5 with 32 bytes of data:
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128
Reply from 192.168.1.5: bytes=32 time=12ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms

C:\>ping 2001:db8:1::6
Pinging 2001:db8:1::6 with 32 bytes of data:
Reply from 2001:DB8:1::6: bytes=32 time=19ms TTL=128
Reply from 2001:DB8:1::6: bytes=32 time<1ms TTL=128
Reply from 2001:DB8:1::6: bytes=32 time=3ms TTL=128
Reply from 2001:DB8:1::6: bytes=32 time=8ms TTL=128

Ping statistics for 2001:DB8:1::6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 19ms, Average = 7ms

C:\>ping
```

Top



Type here to search



IPV4 et IPV6 pour PC 5 et 6

Switch5

Physical Config **CLI** Attributes

IOS Command Line Int

```
%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 192.168.1.255.255.0
                           ^
% 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 Int

```
%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
```

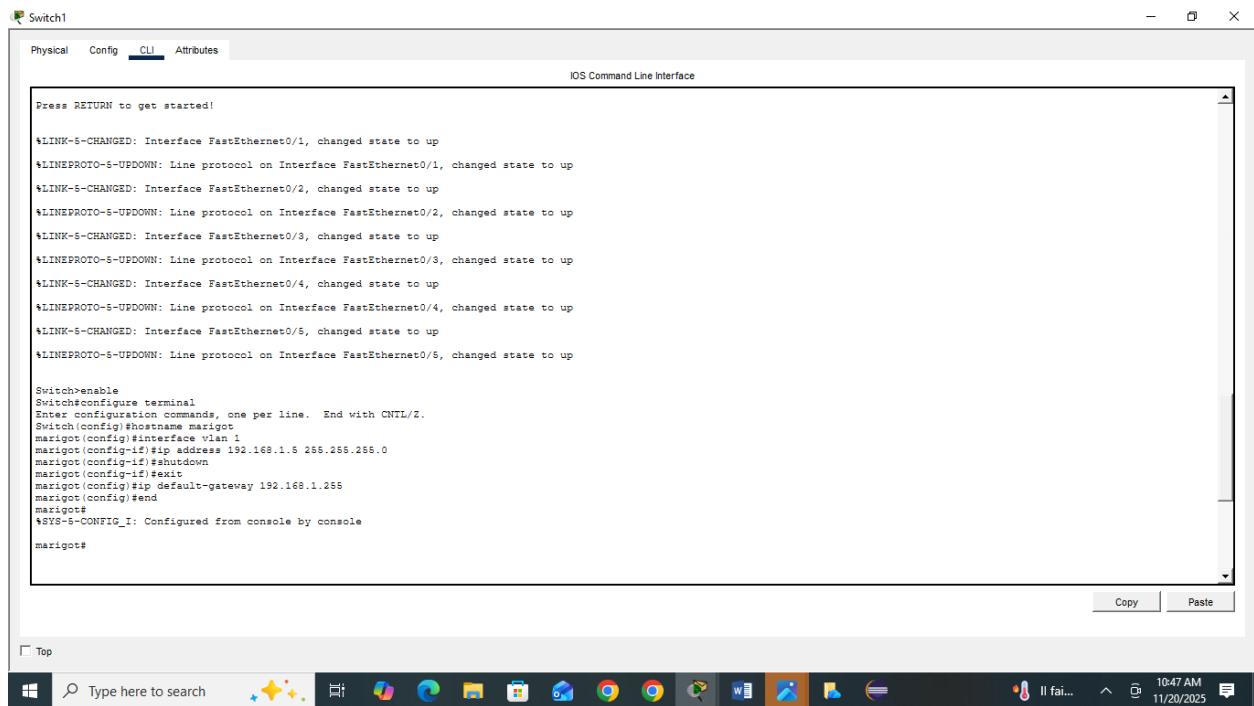
Top



Type here to search



Configuration pour le switch4



```
Switch1
Physical Config CLI Attributes
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
*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 FastEthernet0/4, changed state to up
*LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, 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

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch#conf t
Switch(config)#int range fastethernet 0/1-5
Switch(config-if)#ip address 192.168.1.5 255.255.255.0
Switch(config-if)#shutdown
Switch(config-if)#exit
Switch(config)#ip default-gateway 192.168.1.255
Switch(config)#end
Switch#
*SYN-5-CONFIG_I: Configured from console by console
Switch#
```

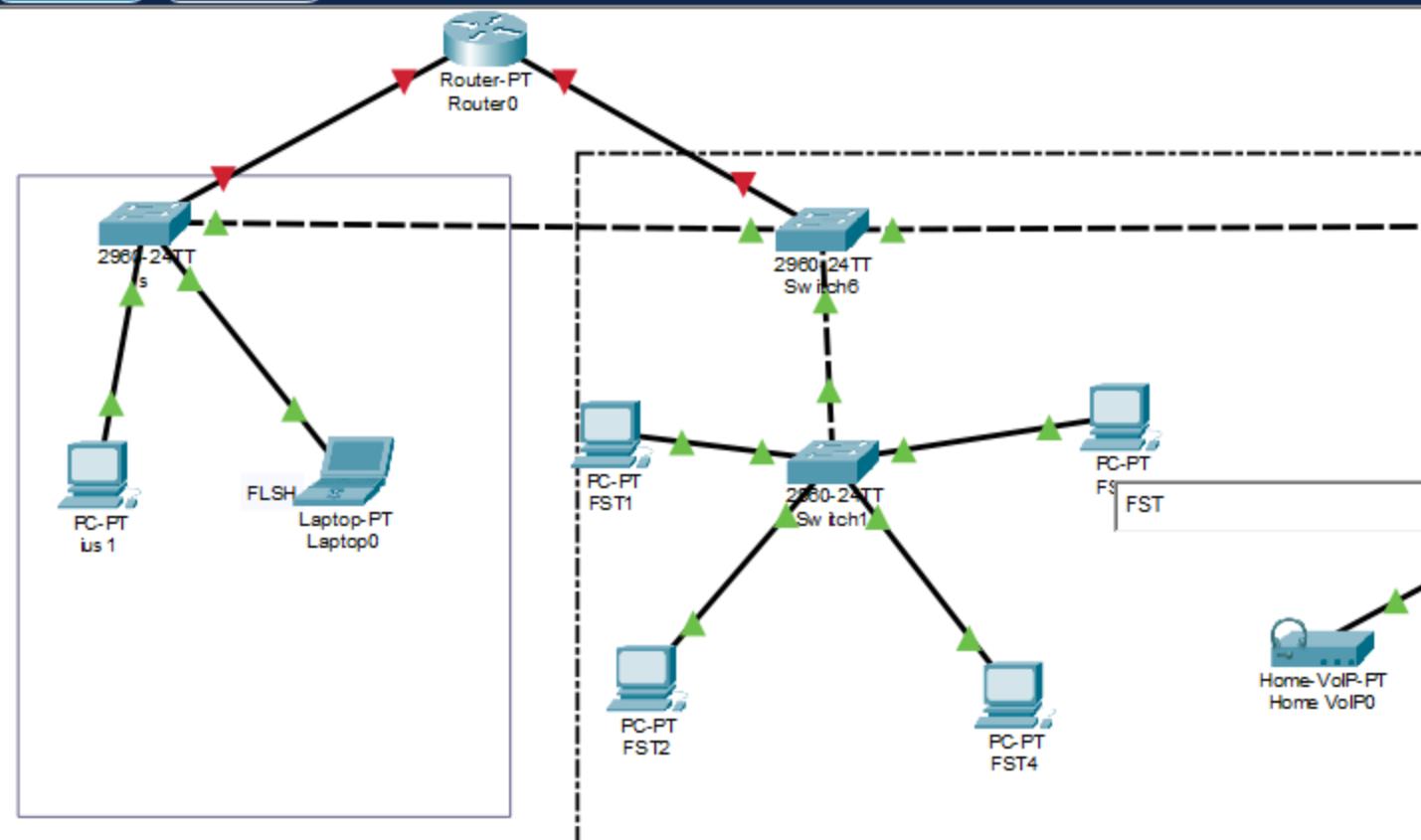
Configuration pour le switch 5

Cisco Packet Tracer - C:\Users\HP\Cisco Packet Tracer 9.0.0\saves\TD\$RESAU.pkt

File Edit Options View Tools Extensions Window Help



Logical Physical x: 382, y: 22



Time: 20:40:09

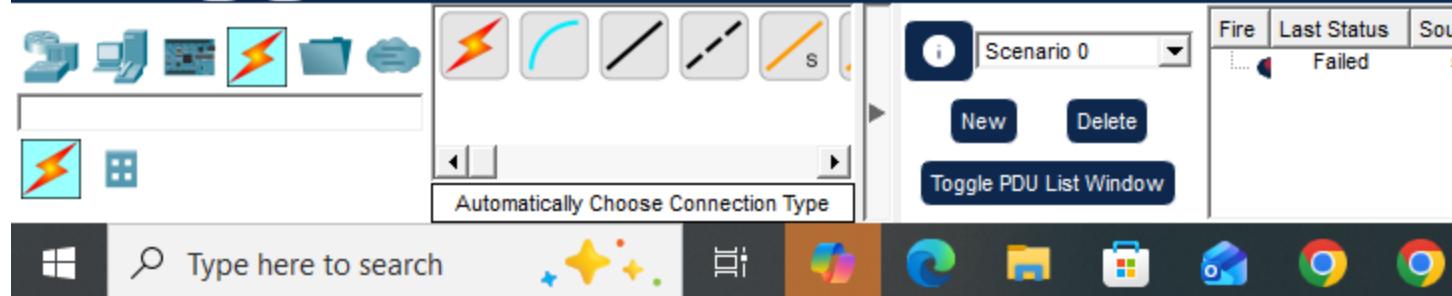


Figure 2

Router4

Physical Config CLI Attributes

IOS Command Line Int

```
% 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]:
% 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
```

Top



Type here to search



Configuration pour le routeur

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.