



**IUS**  
INSTITUT  
UNIVERSITAIRE  
DES SCIENCES

**Faculté des Sciences et Technologie**

**(FST)**

**Niveau : L3-FST**

**Réseaux 1**

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**Date : 31 Décembre 2024**

# Réseaux 1

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## Configuration et Utilisation de SSH et de Telnet dans un réseau simulé sur Cisco Packet Tracer.

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### TD 7

#### Objectif :

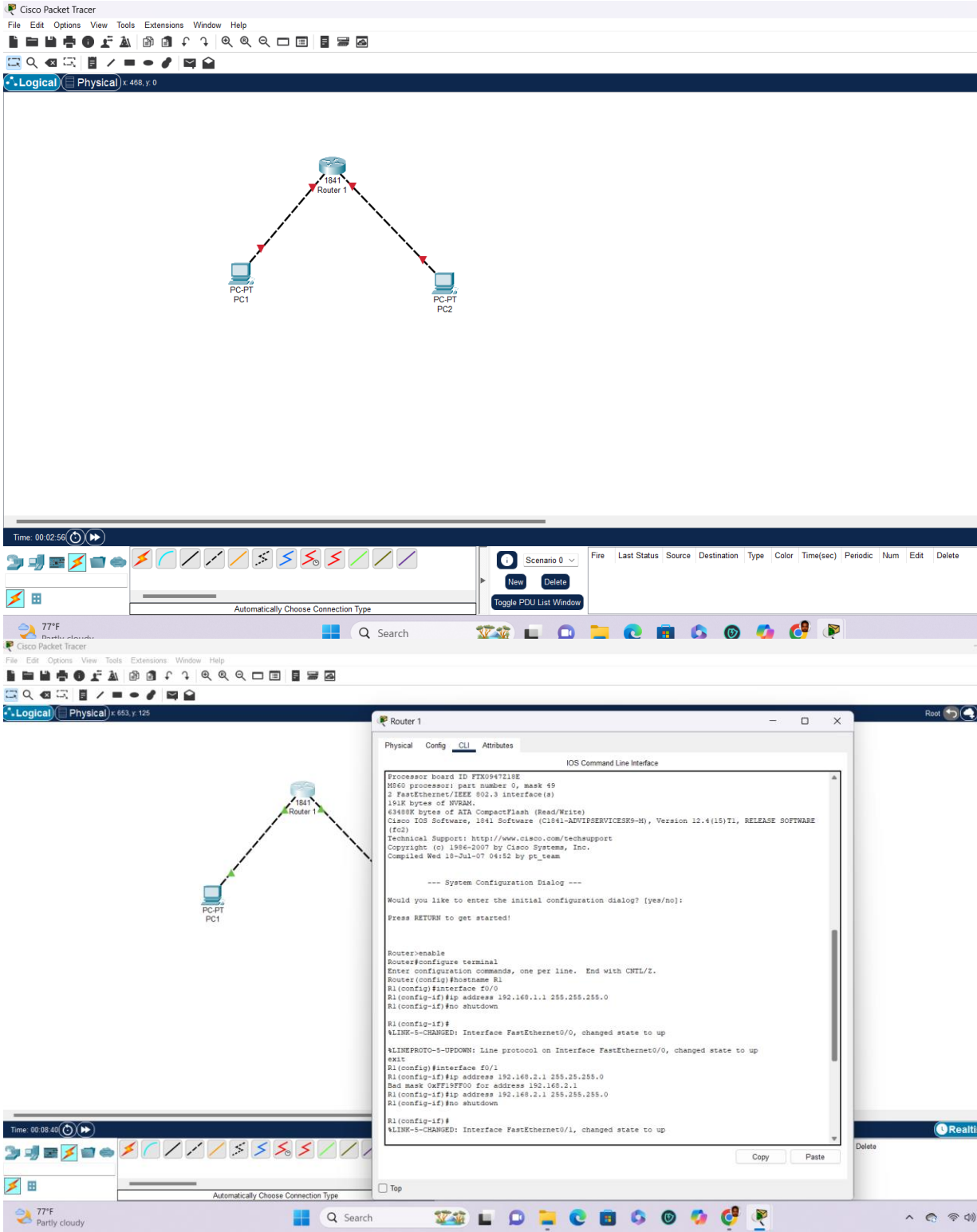
Ce TD vous permettra de configurer SSH sur un périphérique Cisco, créer un utilisateur pour l'authentification, sécuriser l'accès avec des mots de passe et vérifier la connectivité SSH et nous allons configurer Telnet sur un périphérique Cisco, vérifier la connectivité réseau, et sécuriser l'accès Telnet en configurant des mots de passe et des filtres d'adresses IP.

1. Configurer SSH sur un périphérique Cisco (routeur ou switch).
2. Accéder à un périphérique Cisco via SSH de manière sécurisée.
3. Configurer les paramètres de sécurité liés à Telnet.
4. Tester la connexion Telnet et vérifier les configurations.

## Travaux Dirigés :

## Configuration et Utilisation de SSH et de Telnet dans un réseau simulé sur Cisco Packet Tracer.

## 1. Reproduisez cette topologie en configurant le Protocole SSH.



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 653, y 125

Router 1

Physical Config CLI Attributes

IOS Command Line Interface

```
Router(config)#hostname R1
R1(config)#interface f0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown

R1(config-if)#
%LINE-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
R1(config)#interface f0/1
R1(config-if)#ip address 192.168.2.1 255.25.255.0
Bad mask 0xFF19FF00 for address 192.168.2.1
R1(config-if)#ip address 192.168.2.1 255.255.255.0
R1(config-if)#no shutdown

R1(config-if)#
%LINE-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
exit
R1(config)#ip domain-name ius.com
R1(config)#crypto key generate rsa
The name for the keys will be: R1.ius.com
Choose the size of the key modulus in the range of 360 to 2048 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.
How many bits in the modulus [512]: 1024
% Generating 1024 bit RSA keys, keys will be non-exportable...[OK]
R1(config)#username admin privilege 15 secret admin99
*Mar 1 01:32:44: %SSH-5-ENABLED: SSH 1.99 has been enabled
R1(config)#line vty 0 4
R1(config-line)#transport input ssh
R1(config-line)#login local
R1(config-line)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console
R1#
```

Time: 00:08:53

77°F Partly cloudy

Automatically Choose Connection Type

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 641, y 134

PC1

Physical Config Desktop Programming Attributes

Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

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

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:207:ECFF:FEA8:5B1A

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Time: 00:09:51

77°F Partly cloudy

Automatically Choose Connection Type

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 743, y 313

PC2

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.2.10

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80::290:2BFF:FE95:1C83

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password

Time: 00:10:24

Automatically Choose Connection Type

77°F Partly cloudy

Search

Delete

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 724, y 317

PC2

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ssh -l admin 192.168.1.1
^C Connection timed out; remote host not responding
C:\>ssh -l admin 192.168.2.1
Password:
R1#
```

Time: 00:12:53

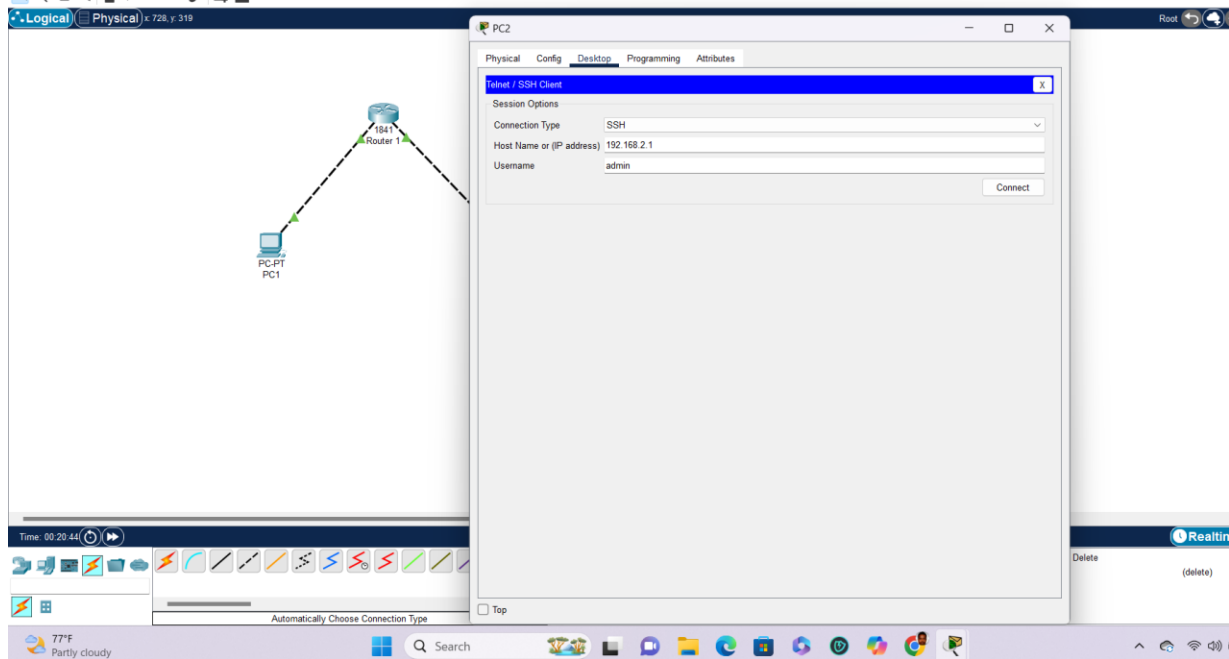
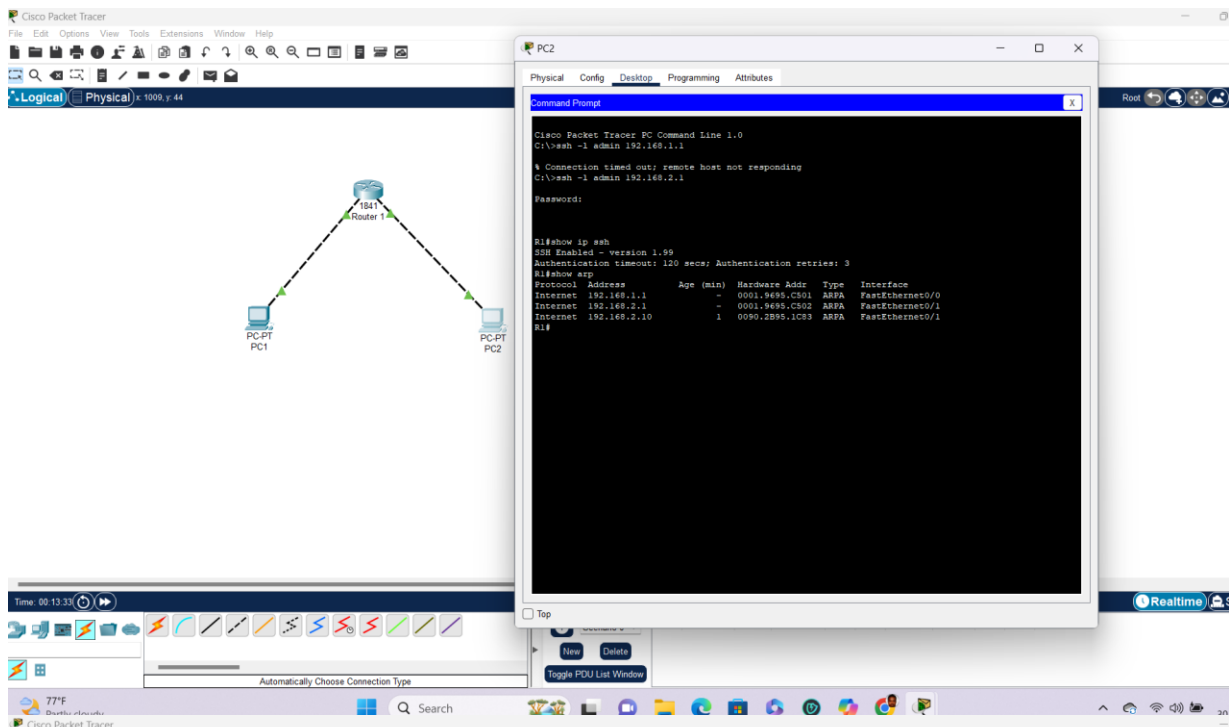
Automatically Choose Connection Type

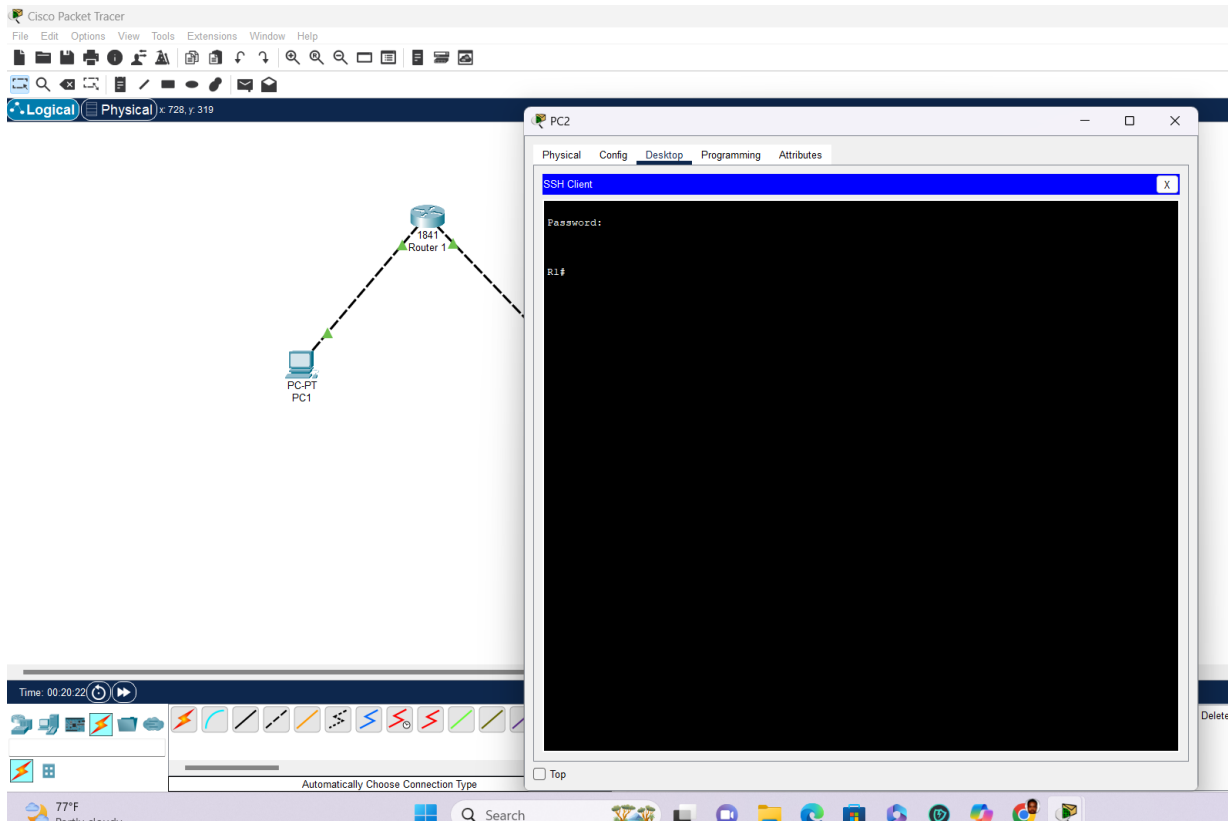
77°F Partly cloudy

Search

Realtime

Delete



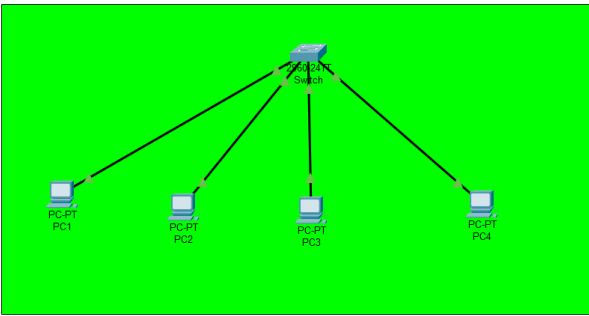


## 2. Reproduisez cette topologie en configurant et en testant le protocole Telnet.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 1267, y 280



Time: 00:02:11

76°F Partly cloudy

Scenario 0

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Search

Switch

Physical Config CLI Attributes

IOS Command Line Interface

```
!LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
!LINE-5-CHANGED: Interface FastEthernet0/2, changed state to up
!LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
!LINE-5-CHANGED: Interface FastEthernet0/3, changed state to up
!LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
!LINE-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#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#vlns Vlan1
S1(config-if)#ip add 192.168.1.2 255.255.255.0
S1(config-if)#no shut

S1(config-if)#
!LINE-5-CHANGED: Interface Vlan1, changed state to up
!LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
exit
S1(config)#ip default-gateway 192.168.1.1
S1(config)#exit
S1#
4505-S-CONFIG_1: Configured from console by console
exit
```

Copy Paste

Top

Time: 00:14:20

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Search

Realtime

Delete



