



IUS
INSTITUT
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DES SCIENCES

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3^{ième} année

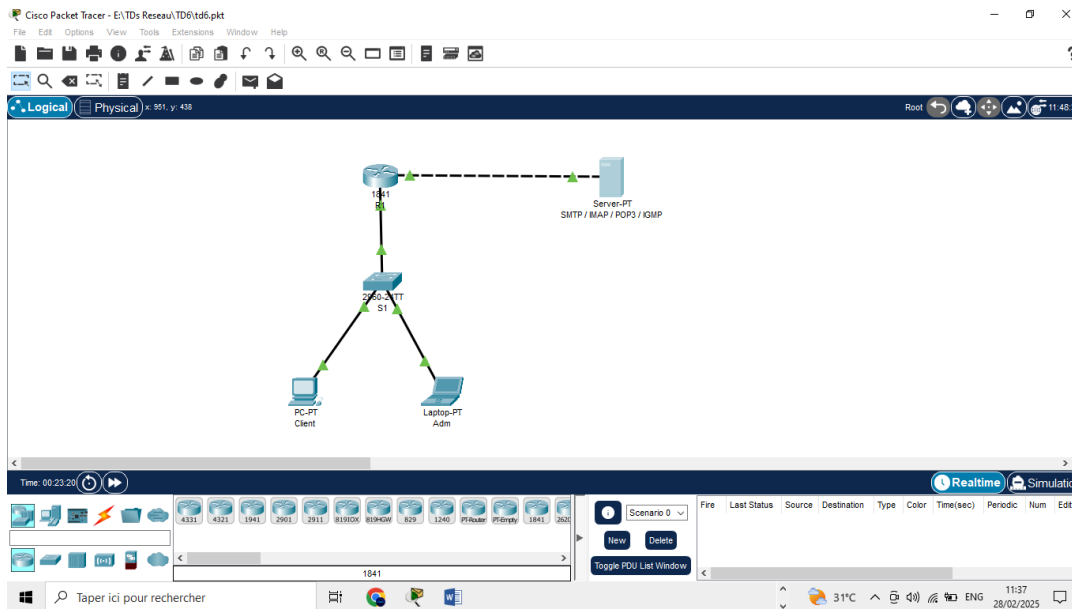
Année :

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Exécution du TD

▪Processus de configuration et d'utilisation du protocole SMTP, IMAP et POP3 sur Cisco Packet Tracer.



```
M860 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
191K bytes of NVRAM.
63498K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 1841 Software (C1841-ADVIPSERVICESK9-M), Version 12.4(15)T1, RELEASE SOFTWARE
(fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 04:52 by pt_team

--- System Configuration Dialog ---

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)#hostname R1
R1(config)#interface FastEthernet0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown

R1(config-if)#exit
R1(config)#interface FastEthernet0/1
R1(config-if)#ip address 192.168.2.1 255.255.255.0
R1(config-if)#no shutdown

R1(config-if)#exit
R1(config)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, 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
```

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Device Name: R1					
Device Model: 1841					
Hostname: R1					
Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
FastEthernet0/0	Up	--	192.168.1.1/24	<not set>	00D0.9783.2601
FastEthernet0/1	Up	--	192.168.2.1/24	<not set>	00D0.9783.2602
Vlan1	Down	1	<not set>	<not set>	00E0.F793.995A

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > R1

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

```
R1(config)#exit
R1#
%SYS-5-CONFIG I: Configured from console by console
show ip interface brief
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/0 192.168.1.1     YES manual up          up
FastEthernet0/1 192.168.2.1     YES manual up          up
Vlan1           unassigned      YES unset  administratively down down
R1#show arp
Protocol Address      Age (min) Hardware Addr Type Interface
Internet 192.168.1.1  -        00D0.9783.2601 ARPA FastEthernet0/0
Internet 192.168.2.1  -        00D0.9783.2602 ARPA FastEthernet0/1
R1#
```

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```

Cisco IOS Software, C2840 Software (C2840-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 02:46 by mcayman

Press RETURN to get started!

%LINE-6-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINE-6-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up
%LINE-6-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 S1
S1(config)#interface Vlan 1
S1(config-if)#ip address 192.168.1.2 255.255.255.0
S1(config-if)#no shutdown
S1(config-if)#exit
S1(config)#
%LINE-6-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
S1(config)#enable
S1#configure terminal
S1(config)#hostname S2
S2(config)#interface Vlan 1
S2(config-if)#ip address 192.168.2.2 255.255.255.0
S2(config-if)#no shutdown
S2(config-if)#exit
S2(config)#
S2(config)#

```

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```
S1
Physical Config CLI Attributes
IOS Command Line Interface
% Incomplete command.
S1(config)#configure terminal
% Invalid input detected at '^' marker.
S1(config)#hostname S2
S2(config)#interface vlan 1
S2(config-if)#ip address 192.168.2.2 255.255.255.0
S2(config-if)#no shutdown
S2(config-if)#exit
S2(config)#
S2(config)#ip default-gateway 192.168.1.1
S2(config)#hostname S1
S1(config)#ip default-gateway 192.168.1.1
S1(config)#exit
S1#show ip interface brief
Interface      IP-Address      OK? Method Status      Protocol
FastEthernet0/1 unassigned      YES manual up          up
FastEthernet0/2 unassigned      YES manual up          up
FastEthernet0/3 unassigned      YES manual up          up
FastEthernet0/4 unassigned      YES manual down    down
FastEthernet0/5 unassigned      YES manual down    down
FastEthernet0/6 unassigned      YES manual down    down
FastEthernet0/7 unassigned      YES manual down    down
FastEthernet0/8 unassigned      YES manual down    down
FastEthernet0/9 unassigned      YES manual down    down
FastEthernet0/10 unassigned      YES manual down    down
FastEthernet0/11 unassigned      YES manual down    down
FastEthernet0/12 unassigned      YES manual down    down
FastEthernet0/13 unassigned      YES manual down    down
FastEthernet0/14 unassigned      YES manual down    down
FastEthernet0/15 unassigned      YES manual down    down
FastEthernet0/16 unassigned      YES manual down    down
FastEthernet0/17 unassigned      YES manual down    down
FastEthernet0/18 unassigned      YES manual down    down
FastEthernet0/19 unassigned      YES manual down    down
FastEthernet0/20 unassigned      YES manual down    down
FastEthernet0/21 unassigned      YES manual down    down
S1#show arp
$SYS-5-CONFIG_I: Configured from console by console
Copy Paste
```

Device Name: Client				
Device Model: PC-PT				
Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0	Up	192.168.1.10/24	<not set>	0007.ECB0.61AE
Bluetooth	Down	<not set>	<not set>	0001.42E4.92D5
Gateway: 192.168.1.1				
DNS Server: <not set>				
Line Number: <not set>				
Physical Location: Intercity > Home City > Corporate Office > Client				

Device Name: Adm				
Device Model: Laptop-PT				
Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0	Up	192.168.2.11/24	<not set>	0007.EC3B.EB3C
Bluetooth	Down	<not set>	<not set>	0003.E450.8BC2
Gateway: 192.168.1.1				
DNS Server: <not set>				
Line Number: <not set>				
Physical Location: Intercity > Home City > Corporate Office > Adm				

Device Name: SMTP / IMAP / POP3				
Device Model: Server-PT				
Port	Link	IP Address	IPv6 Address	MAC Address
FastEthernet0	Up	192.168.2.10/24	<not set>	0010.1124.8639
Gateway: 192.168.2.1				
DNS Server: <not set>				
Line Number: <not set>				
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > SMTP / IMAP / POP3				

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL**
- FTP
- IoT
- VM Management
- Radius EAP

SMTP Service ☒ ON ☐ OFF

EMAIL POP3 Service ☒ ON ☐ OFF

Domain Name:

User Setup

User Password

User1
user2

☐ Top

Physical Config **Desktop** Programming Attributes

Configure Mail

User Information

Your Name:

Email Address

Server Information

Incoming Mail Server

Outgoing Mail Server

Logon Information

User Name:

Password:

Physical Config **Desktop** Programming Attributes

Configure Mail

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Login Information

User Name:

Password:

Physical Config **Desktop** Programming Attributes

Compose Mail

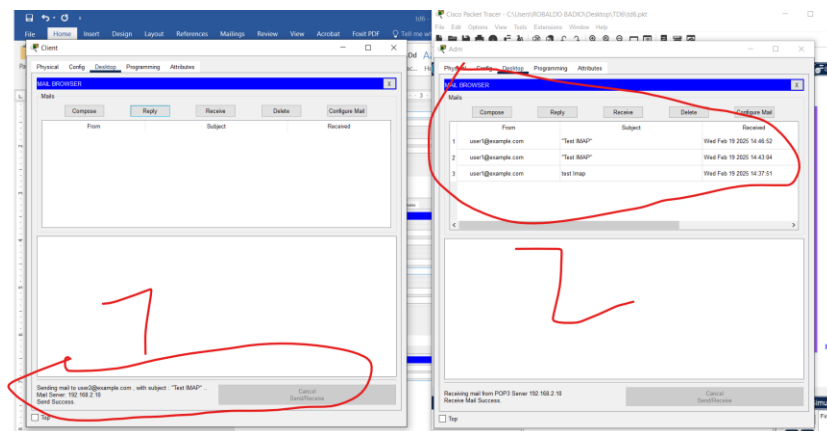
To:

Subject:

Bonjour, je test mon petit programme.

Ne craignez pas, je vais pas pirater votre systeme.

blague, rire.



SMTP

```
R1>enable
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface FastEthernet0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#interface FastEthernet0/1
R1(config-if)#ip address 192.168.2.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#exit
R1(config)#access-list 110 permit tcp any any eq smtp
R1(config)#line vty 0 4
R1(config-line)#login
% Login disabled on line 194, until 'password' is set
% Login disabled on line 195, until 'password' is set
% Login disabled on line 196, until 'password' is set
% Login disabled on line 197, until 'password' is set
% Login disabled on line 198, until 'password' is set
R1(config-line)#password cisco
R1(config-line)#login
R1(config-line)#enable secret cisco
R1(config)#exit
R1#write memory
%SYS-5-CONFIG_I: Configured from console by console

Building configuration...
[OK]
R1#
```

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```
Cisco Packet Tracer PC Command Line 1.0
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
Reply from 192.168.1.10: bytes=32 time=2ms TTL=128
Reply from 192.168.1.10: bytes=32 time<1ms TTL=128
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 = 2ms, Average = 0ms

C:\>
C:\>
C:\>
C:\> telnet 192.168.2.100 25
Trying 192.168.2.100 ...
% Connection timed out; remote host not responding
C:\>
C:\>
```

R1

Physical Config CLI Attributes

IOS Command Line Interface

```
R1>enable
Password:
Password:
R1#enable
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)# Bloquer ICMP pour un rseau spcifique
      ^
% Invalid input detected at '^' marker.

R1(config)#access-list 100 deny icmp any any
R1(config)#access-list 100 permit ip any any
R1(config)# Appliquer l'ACL sur une interface
      ^
% Invalid input detected at '^' marker.

R1(config)#interface GigabitEthernet0/0
%Invalid interface type and number
R1(config)#ip access-group 100 in
      ^
% Invalid input detected at '^' marker.

R1(config)#exit
R1#write memory
%SYS-5-CONFIG_I: Configured from console by console

Building configuration...
[OK]
R1#
```

Co

```
C:\>ping 8.8.8.8
```

```
Pinging 8.8.8.8 with 32 bytes of data:
```

```
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
Reply from 192.168.1.1: Destination host unreachable.
```

```
Ping statistics for 8.8.8.8:
```

```
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```


Press RETURN to get started:

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

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

R1>enable

Password:

Password:

R1#conf t

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

R1(config)#interface GigabitEthernet0/0

%Invalid interface type and number

R1(config)#ip address 192.168.1.254 255.255.255.0

% Invalid input detected at '^' marker.

R1(config)#ip pim sparse-dense-mode

% Invalid input detected at '^' marker.

R1(config)#

R1>interface GigabitEthernet0/0

% Invalid input detected at '^' marker.

R1>ip igmp join-group 239.1.1.1

% Invalid input detected at '^' marker.

R1>exit

R1>show ip igmp groups

% Invalid input detected at '^' marker.

R1>



Physical Config **Desktop** Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\> ping 239.1.1.1

Pinging 239.1.1.1 with 32 bytes of data:

Request timed out.
```

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```
R1>show ip igmp groups
      ^
% Invalid input detected at '^' marker.

R1>
R1>access-list 10 permit 239.1.1.1
      ^
% Invalid input detected at '^' marker.

R1>interface GigabitEthernet0/0
      ^
% Invalid input detected at '^' marker.

R1>ip igmp access-group 10
      ^
% Invalid input detected at '^' marker.

R1>
```

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En conclusion, ce cours nous permet de de comprendre comment configurer et utiliser le protocole SMTP, IMAP, POP3, IGMP dans un réseau.

