Institut Universitaire des Sciences (IUS)

Faculté des Sciences et Technologies

(FST)

RAPPORT

SUR LE TRAVAIL DE LABORATOIRE № 5

Cours : Cisco Packet Tracer (Reseau 1)

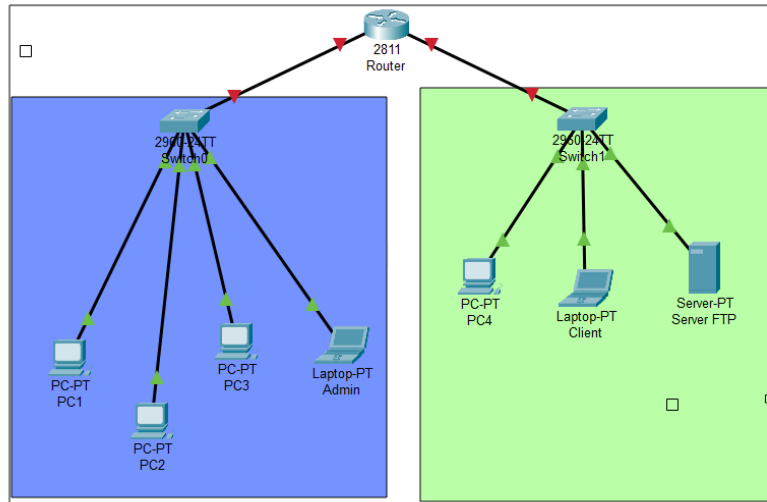Soumis au Chargé de cours : **Ismael SAINT AMOUR**

Niveau L3

Préparé par : **Robaldo BADIO**

Date : Le 08 / 12 / 2024

Exécution du TD

1. Les résultats sur les commandes du TD 5 Réseau (FTP)


```
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

cisco 2811 (MPC860) processor (revision 0x200) with 60416K/5120K bytes of memory
Processor board ID JAD05190MTZ (4292891495)
2 FastEthernet interface(s)
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)


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

R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

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

Copy   Paste

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#show ip interface bief
                        ^
% Invalid input detected at '^' marker.

R1#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.BA98.E001  ARPA   FastEthernet0/0
Internet  192.168.2.1          -     00D0.BA98.E002  ARPA   FastEthernet0/1
R1#exit
```

Copy   Paste

PC1

Physical | Config | Desktop | Programming | Attributes

Close

IP Configuration   X

Interface   FastEthernet0

IP Configuration
- ○ DHCP   ● Static
- IPv4 Address   192.168.1.10
- Subnet Mask   255.255.255.0
- Default Gateway   192.168.1.1
- DNS Server   0.0.0.0

IPv6 Configuration
- ○ Automatic   ● Static
- IPv6 Address   /
- Link Local Address   FE80::206:2AFF:FE1B:C325
- Default Gateway
- DNS Server

802.1X
- ☐ Use 802.1X Security
- Authentication   MD5
- Username
- Password

PC2

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration
- ○ DHCP   ● Static
- IPv4 Address   192.168.1.11
- Subnet Mask   255.255.255.0
- Default Gateway   192.168.1.1
- DNS Server   0.0.0.0

IPv6 Configuration
- ○ Automatic   ● Static
- IPv6 Address   /
- Link Local Address   FE80::201:97FF:FE08:1928
- Default Gateway
- DNS Server

802.1X
- ☐ Use 802.1X Security
- Authentication   MD5
- Username
- Password

Delete

PC3

Physical | Config | Desktop | Programming | Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

○ DHCP   ● Static

IPv4 Address: 192.168.1.12

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address: _____ / ___

Link Local Address: FE80::260:2FFF:FE20:780A

Default Gateway: _____

DNS Server: _____

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username: _____

Password: _____

Delete

Admin

Physical | Config | Desktop | Programming | Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

○ DHCP   ● Static

IPv4 Address: 192.168.1.13

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address: _____ / ___

Link Local Address: FE80::200:CFF:FE70:588

Default Gateway: _____

DNS Server: _____

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username: _____

Password: _____

Physical | Config | Services | Desktop | Programming | Attributes

IP Configuration   X

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.2.17

Subnet Mask   255.255.255.0

Default Gateway   192.168.2.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address   /

Link Local Address   FE80::207:ECFF:FE42:BD64

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5

Username

Password

```
%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

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

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

%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to down

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

%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 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)#
%LINK-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
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down

%LINK-3-UPDOWN: Interface FastEthernet0/4, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

%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 FastEthernet0/1, 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 S2
S2(config)#interface vlan 1
S2(config-if)#ip address 192.168.2.1
% Incomplete command.
S2(config-if)#ip address 192.168.2.1 255.255.255.0
S2(config-if)#no shutdown

S2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.2.1 on Vlan1, sourced by 00D0.BA98.E002
exit
S2(config)#
```
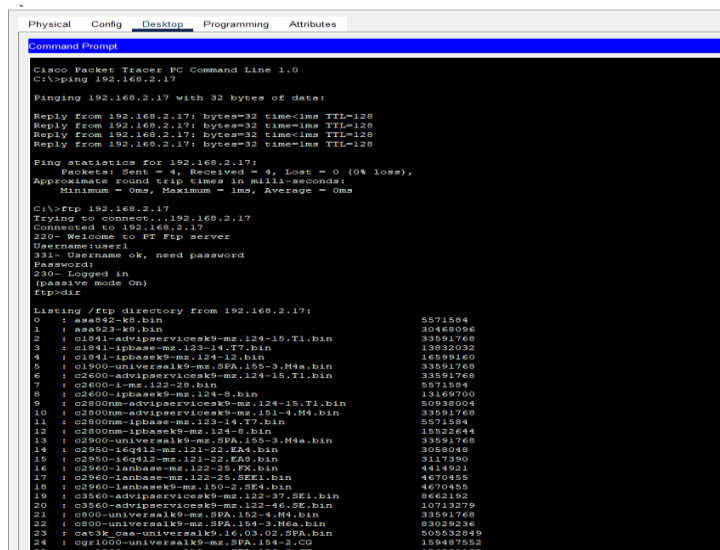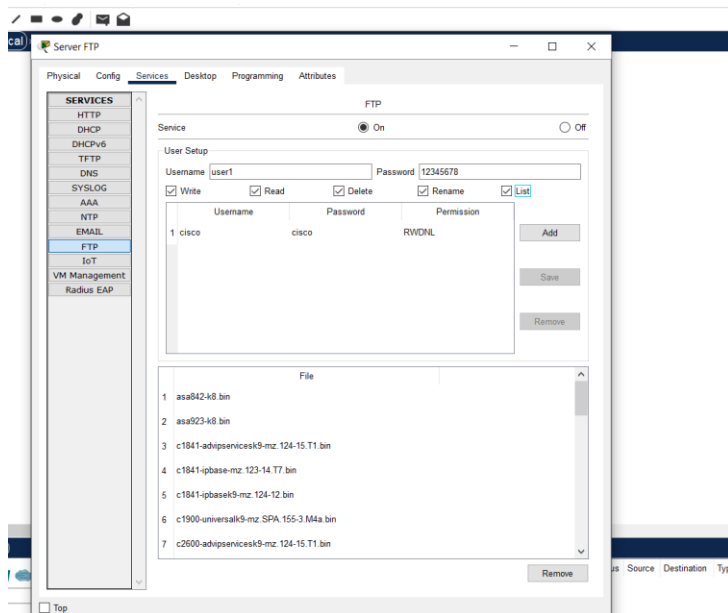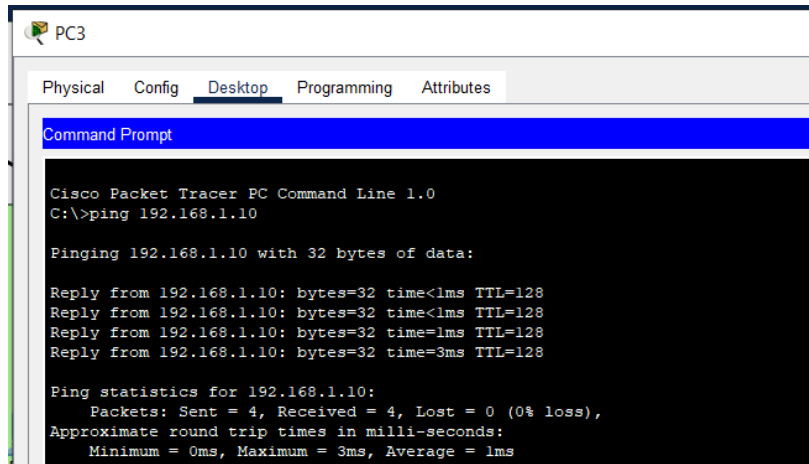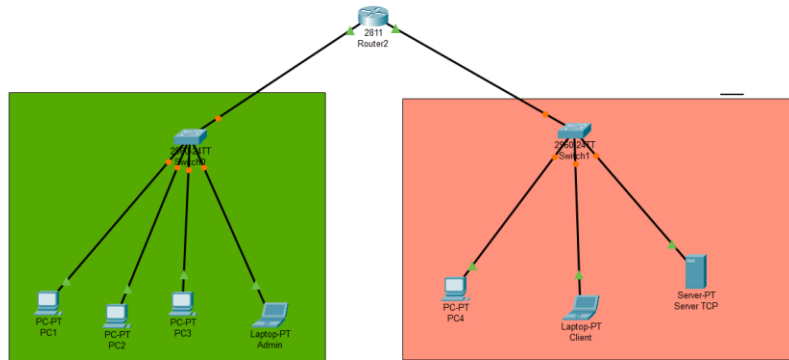
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PC3

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
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<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=3ms 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 = 3ms, Average = 1ms
```


Server FTP

Physical | Config | Services | Desktop | Programming | Attributes

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

FTP

Service   ● On   ○ Off

User Setup

Username: user1   Password: 12345678

☑ Write ☑ Read ☑ Delete ☑ Rename ☑ List

Username	Password	Permission
1 cisco	cisco	RWDNL

Add
Save
Remove

File
1 asa842-k8.bin
2 asa923-k8.bin
3 c1841-advipservicesk9-mz.124-15.T1.bin
4 c1841-ipbase-mz.123-14.T7.bin
5 c1841-ipbasek9-mz.124-12.bin
6 c1900-universalk9-mz.SPA.155-3.M4a.bin
7 c2600-advipservicesk9-mz.124-15.T1.bin

Remove

☐ Top

Physical | Config | Desktop | Programming | Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.2.17

Pinging 192.168.2.17 with 32 bytes of data:

Reply from 192.168.2.17: bytes=32 time<1ms TTL=128
Reply from 192.168.2.17: bytes=32 time=1ms TTL=128
Reply from 192.168.2.17: bytes=32 time=1ms TTL=128
Reply from 192.168.2.17: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.2.17:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ftp 192.168.2.17
Trying to connect...192.168.2.17
Connected to 192.168.2.17
220- Welcome to PT Ftp server
Username:user1
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>dir

Listing /ftp directory from 192.168.2.17:
0   : asa842-k8.bin                                5571584
1   : asa923-k8.bin                               30468096
2   : c1841-advipservicesk9-mz.124-15.T1.bin      33591768
3   : c1841-ipbase-mz.123-14.T7.bin               13832032
4   : c1841-ipbasek9-mz.124-12.bin                16599160
5   : c1900-universalk9-mz.SPA.155-3.M4a.bin       33591768
6   : c2600-advipservicesk9-mz.124-15.T1.bin       33591768
7   : c2600-i-mz.122-28.bin                         5571584
8   : c2600-ipbasek9-mz.124-8.bin                  13169700
9   : c2800nm-advipservicesk9-mz.124-15.T1.bin     50938004
10  : c2800nm-advipservicesk9-mz.151-4.M4.bin      33591768
11  : c2800nm-ipbase-mz.123-14.T7.bin               5571584
12  : c2800nm-ipbasek9-mz.124-8.bin                15522644
13  : c2900-universalk9-mz.SPA.155-3.M4a.bin        33591768
14  : c2950-16q412-mz.121-22.EA4.bin                3058048
15  : c2950-16q412-mz.121-22.EA8.bin                3117390
16  : c2960-lanbase-mz.122-25.FX.bin                4414921
17  : c2960-lanbase-mz.122-25.SEE1.bin              4670455
18  : c2960-lanbasek9-mz.150-2.SE4.bin              4670455
19  : c3560-advipservicesk9-mz.122-37.SE1.bin       8662192
20  : c3560-advipservicesk9-mz.122-46.SE.bin       10713278
21  : c800-universalk9-mz.SPA.152-4.M4.bin         33591768
22  : c800-universalk9-mz.SPA.154-3.M6a.bin        83029236
23  : cat3k_caa-universalk9.16.03.02.SPA.bin      505532869
24  : cgr1000-universalk9-mz.SPA.154-2.CG         159487552
25  : cgr1000-universalk9-mz.SPA.156-3.CG         184530138
```

2. Les résultats sur les commandes du TD 5 Réseau (TCP)


```
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
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http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

cisco 2811 (MPC860) processor (revision 0x200) with 60416K/5120K bytes of memory
Processor board ID JAD05190MTZ (4292891495)
2 FastEthernet interface(s)
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)


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

R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

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

Copy   Paste

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#show ip interface bief
                    ^
% Invalid input detected at '^' marker.

R1#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.BA98.E001  ARPA   FastEthernet0/0
Internet  192.168.2.1         -      00D0.BA98.E002  ARPA   FastEthernet0/1
R1#exit
```

Copy   Paste

PC1

Physical Config Desktop Programming Attributes

Close

IP Configuration   X

Interface   FastEthernet0

IP Configuration
○ DHCP   ● Static
IPv4 Address   192.168.1.10
Subnet Mask   255.255.255.0
Default Gateway   192.168.1.1
DNS Server   0.0.0.0

IPv6 Configuration
○ Automatic   ● Static
IPv6 Address   /
Link Local Address FE80::206:2AFF:FE1B:C325
Default Gateway
DNS Server

802.1X
☐ Use 802.1X Security
Authentication   MD5
Username
Password

PC2

Physical Config Desktop Programming Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration
○ DHCP   ● Static
IPv4 Address   192.168.1.11
Subnet Mask   255.255.255.0
Default Gateway   192.168.1.1
DNS Server   0.0.0.0

IPv6 Configuration
○ Automatic   ● Static
IPv6 Address   /
Link Local Address FE80::201:97FF:FE08:1928
Default Gateway
DNS Server

802.1X
☐ Use 802.1X Security
Authentication   MD5
Username
Password

Delete

PC3 — Desktop — IP Configuration

Physical | Config | Desktop | Programming | Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration
- ○ DHCP   ● Static
- IPv4 Address: 192.168.1.12
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.1
- DNS Server: 0.0.0.0

IPv6 Configuration
- ○ Automatic   ● Static
- IPv6 Address: /
- Link Local Address: FE80::260:2FFF:FE20:780A
- Default Gateway:
- DNS Server:

802.1X
- ☐ Use 802.1X Security
- Authentication: MD5
- Username:
- Password:

Delete

Admin — Desktop — IP Configuration

Physical | Config | Desktop | Programming | Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration
- ○ DHCP   ● Static
- IPv4 Address: 192.168.1.13
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.1
- DNS Server: 0.0.0.0

IPv6 Configuration
- ○ Automatic   ● Static
- IPv6 Address: /
- Link Local Address: FE80::200:CFF:FE70:588
- Default Gateway:
- DNS Server:

802.1X
- ☐ Use 802.1X Security
- Authentication: MD5
- Username:
- Password:

PC4

Physical | Config | Desktop | Programming | Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

- ○ DHCP
- ● Static

IPv4 Address	192.168.2.14
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
DNS Server	0.0.0.0

IPv6 Configuration

- ○ Automatic
- ● Static

IPv6 Address	/
Link Local Address	FE80::202:17FF:FE10:682E
Default Gateway	
DNS Server	

802.1X

☐ Use 802.1X Security

Authentication	MD5
Username	
Password	

Client

Physical | Config | Desktop | Programming | Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

- ○ DHCP
- ● Static

IPv4 Address	192.168.2.15
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
DNS Server	0.0.0.0

IPv6 Configuration

- ○ Automatic
- ● Static

IPv6 Address	/
Link Local Address	FE80::201:96FF:FE04:162C
Default Gateway	
DNS Server	

802.1X

☐ Use 802.1X Security

Authentication	MD5
Username	
Password	

```
Device Name: Server TCP
Device Model: Server-PT


Port            Link   IP Address          IPv6 Address                             MAC Address
FastEthernet0   Up     192.168.2.17/24     <not set>                                0007.EC42.BD64

Gateway: 192.168.2.1
DNS Server: <not set>
Line Number:  <not set>

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Server FTP
```

```
%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

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

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

%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to down

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

%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 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)#
%LINK-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
```
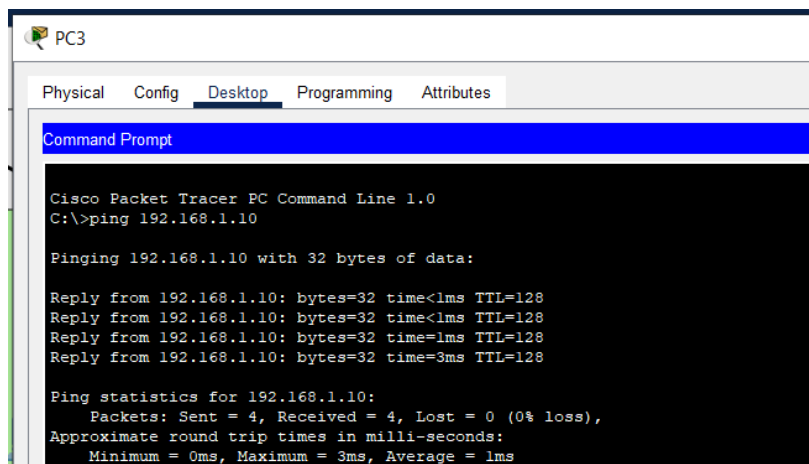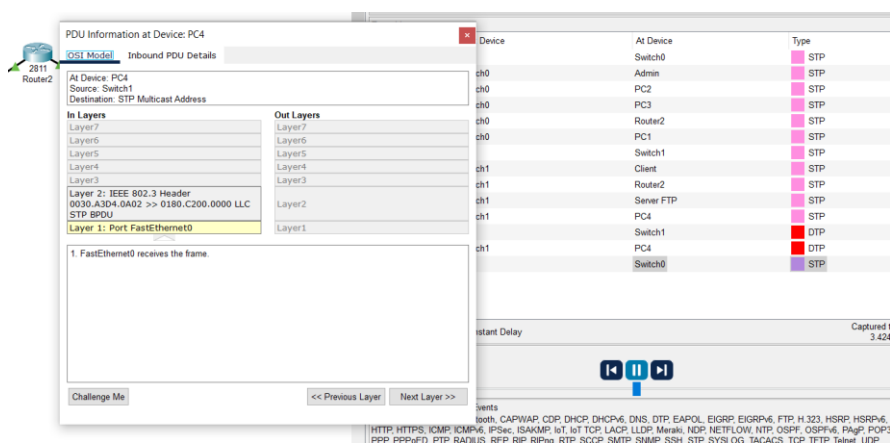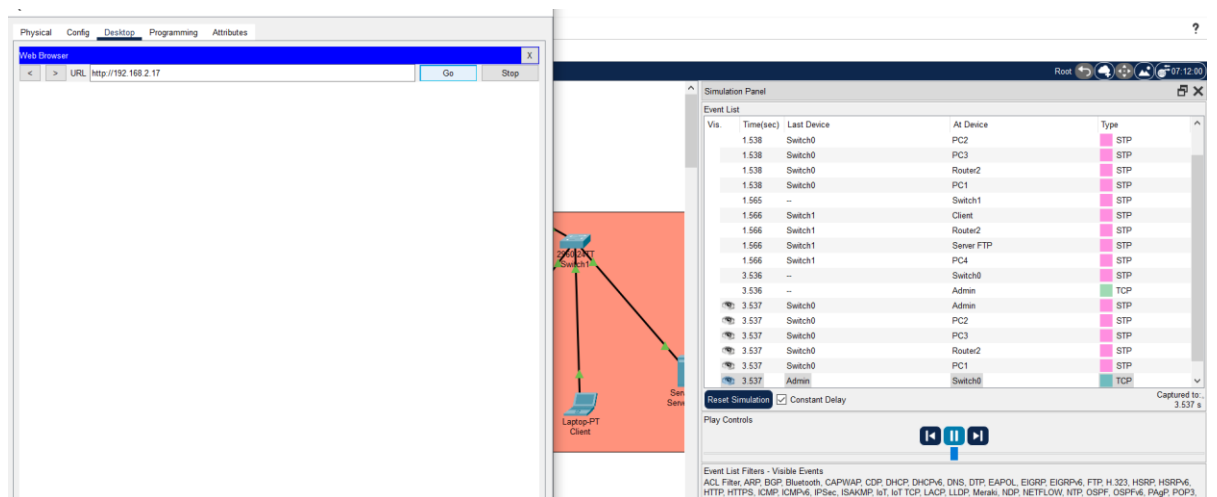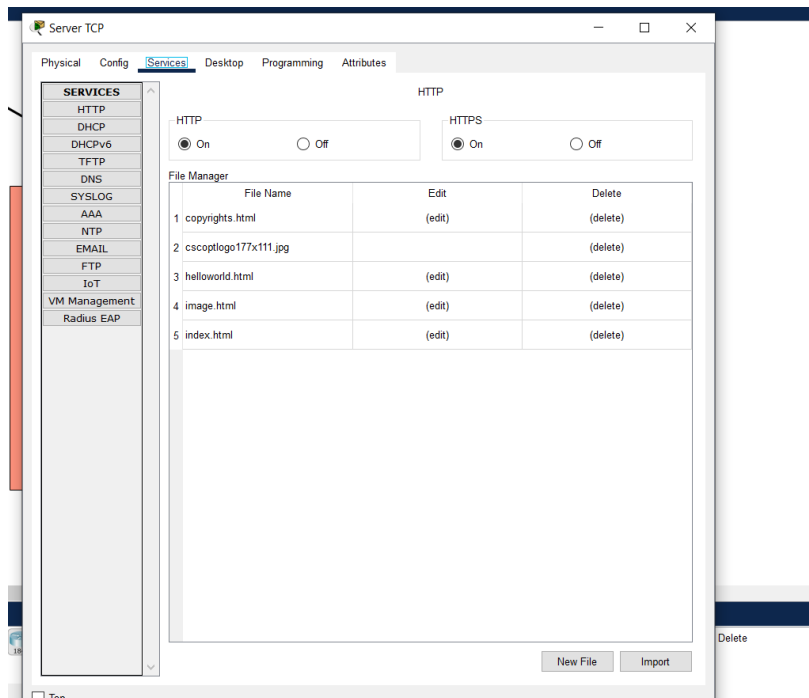
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down
%LINK-3-UPDOWN: Interface FastEthernet0/4, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

%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 FastEthernet0/1, 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 S2
S2(config)#interface vlan 1
S2(config-if)#ip address 192.168.2.1
% Incomplete command.
S2(config-if)#ip address 192.168.2.1 255.255.255.0
S2(config-if)#no shutdown

S2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.2.1 on Vlan1, sourced by 00D0.BA98.E002
exit
S2(config)#
```

| Copy | Paste |


```
PC3

Physical    Config    Desktop    Programming    Attributes

Command Prompt

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<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=3ms 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 = 3ms, Average = 1ms
```

Server TCP

Physical   Config   Services   Desktop   Programming   Attributes

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

HTTP

HTTP			HTTPS		
● On	○ Off		● On	○ Off	

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x111.jpg		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)

New File   Import

Delete

☐ Top

Physical   Config   Desktop   Programming   Attributes

Web Browser   X

<   >   URL http://192.168.2.17   Go   Stop

Root   07:12:00

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	1.538	Switch0	PC2	STP
	1.538	Switch0	PC3	STP
	1.538	Switch0	Router2	STP
	1.538	Switch0	PC1	STP
	1.565	--	Switch1	STP
	1.566	Switch1	Client	STP
	1.566	Switch1	Router2	STP
	1.566	Switch1	Server FTP	STP
	1.566	Switch1	PC4	STP
	3.536	--	Switch0	STP
	3.536	--	Admin	TCP
👁	3.537	Switch0	Admin	STP
👁	3.537	Switch0	PC2	STP
👁	3.537	Switch0	PC3	STP
👁	3.537	Switch0	Router2	STP
👁	3.537	Switch0	PC1	STP
👁	3.537	Admin	Switch0	TCP

Reset Simulation   ☑ Constant Delay   Captured to: 3.537 s

Play Controls

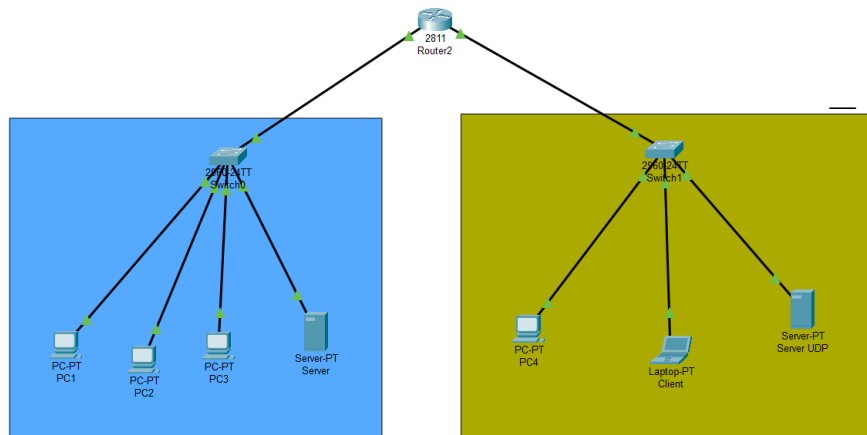Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6,
HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3,

---

PDU Information at Device: PC4   X

OSI Model   Inbound PDU Details

2811
Router2

At Device: PC4
Source: Switch1
Destination: STP Multicast Address

In Layers	Out Layers
Layer7	Layer7
Layer6	Layer6
Layer5	Layer5
Layer4	Layer4
Layer3	Layer3
Layer 2: IEEE 802.3 Header	Layer2
0030.A3D4.0A02 >> 0180.C200.0000 LLC	
STP BPDU	
Layer 1: Port FastEthernet0	Layer1

1. FastEthernet0 receives the frame.

Challenge Me   << Previous Layer   Next Layer >>

Device	At Device	Type
ch0	Switch0	STP
ch0	Admin	STP
ch0	PC2	STP
ch0	PC3	STP
ch0	Router2	STP
ch0	PC1	STP
ch1	Switch1	STP
ch1	Client	STP
ch1	Router2	STP
ch1	Server FTP	STP
ch1	PC4	STP
ch1	Switch1	DTP
ch1	PC4	DTP
	Switch0	STP

Constant Delay   Captured t   3.424

Events
HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3,
PPP, PPPoED, FTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP

PDU Information at Device: PC3

OSI Model | Inbound PDU Details

At Device: PC3
Source: Switch0
Destination: STP Multicast Address

In Layers

| Layer7 |
| Layer6 |
| Layer5 |
| Layer4 |
| Layer3 |
| Layer 2: IEEE 802.3 Header 0001.C9A9.3B04 >> 0180.C200.0000 LLC STP BPDU |
| Layer 1: Port FastEthernet0 |

Out Layers

| Layer7 |
| Layer6 |
| Layer5 |
| Layer4 |
| Layer3 |
| Layer2 |
| Layer1 |

1. FastEthernet0 receives the frame.

Challenge Me | << Previous Layer | Next Layer >>

Device	At Device	Type
ch1	Client	STP
ch1	Router2	STP
ch1	Server FTP	STP
ch1	PC4	STP
	Switch1	DTP
ch1	Client	DTP
	Switch0	STP
ch0	Admin	STP
ch0	PC2	STP
ch0	PC3	STP
ch0	Router2	STP
ch0	PC1	STP
	Switch1	STP
ch1	Client	STP
ch1	Router2	STP
ch1	Server FTP	STP
ch1	PC4	STP

Captured to:
7.466 s

nstant Delay

vents

tooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

3. Les résultats sur les commandes du TD 5 Réseau (UDP)


```
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to
export@cisco.com.

cisco 2811 (MPC860) processor (revision 0x200) with 60416K/5120K bytes of memory
Processor board ID JAD05190MTZ (4292891495)
2 FastEthernet interface(s)
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)


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

R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

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

Copy   Paste

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
exit
R1(config)#exit
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#show ip interface bief
                      ^
% Invalid input detected at '^' marker.

R1#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.BA98.E001  ARPA   FastEthernet0/0
Internet  192.168.2.1           -    00D0.BA98.E002  ARPA   FastEthernet0/1
R1#exit
```

Copy   Paste

PC1

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration
○ DHCP   ● Static
IPv4 Address   192.168.1.10
Subnet Mask   255.255.255.0
Default Gateway   192.168.1.1
DNS Server   0.0.0.0

IPv6 Configuration
○ Automatic   ● Static
IPv6 Address   /
Link Local Address   FE80::206:2AFF:FE1B:C325
Default Gateway
DNS Server

802.1X
☐ Use 802.1X Security
Authentication   MD5
Username
Password

PC2

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration
○ DHCP   ● Static
IPv4 Address   192.168.1.11
Subnet Mask   255.255.255.0
Default Gateway   192.168.1.1
DNS Server   0.0.0.0

IPv6 Configuration
○ Automatic   ● Static
IPv6 Address   /
Link Local Address   FE80::201:97FF:FE08:1928
Default Gateway
DNS Server

802.1X
☐ Use 802.1X Security
Authentication   MD5
Username
Password

Delete

PC3

Physical | Config | Desktop | Programming | Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

○ DHCP ● Static

IPv4 Address: 192.168.1.12
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.1.1
DNS Server: 0.0.0.0

IPv6 Configuration

○ Automatic ● Static

IPv6 Address: /
Link Local Address: FE80::260:2FFF:FE20:780A
Default Gateway:
DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5
Username:
Password:

Delete

Server

Physical | Config | Services | Desktop | Programming | Attributes

IP Configuration

IP Configuration

○ DHCP ● Static

IPv4 Address: 192.168.1.9
Subnet Mask: 255.255.255.0
Default Gateway: 192.168.1.1
DNS Server: 0.0.0.0

IPv6 Configuration

○ Automatic ● Static

IPv6 Address: /
Link Local Address: FE80::250:FFF:FE16:55A6
Default Gateway:
DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5
Username:
Password:

Delete

PC4

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

- ◯ DHCP   ◉ Static
- IPv4 Address   192.168.2.14
- Subnet Mask   255.255.255.0
- Default Gateway   192.168.2.1
- DNS Server   0.0.0.0

IPv6 Configuration

- ◯ Automatic   ◉ Static
- IPv6 Address   /
- Link Local Address   FE80::202:17FF:FE10:682E
- Default Gateway
- DNS Server

802.1X

- ☐ Use 802.1X Security
- Authentication   MD5
- Username
- Password

Client

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

- ◯ DHCP   ◉ Static
- IPv4 Address   192.168.2.15
- Subnet Mask   255.255.255.0
- Default Gateway   192.168.2.1
- DNS Server   0.0.0.0

IPv6 Configuration

- ◯ Automatic   ◉ Static
- IPv6 Address   /
- Link Local Address   FE80::201:96FF:FE04:162C
- Default Gateway
- DNS Server

802.1X

- ☐ Use 802.1X Security
- Authentication   MD5
- Username
- Password

```
Device Name: Server UDP
Device Model: Server-PT

Port            Link   IP Address          IPv6 Address                              MAC Address
FastEthernet0   Up     192.168.2.17/24     <not set>                                 0007.EC42.BD64

Gateway: 192.168.2.1
DNS Server: <not set>
Line Number:  <not set>

Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Server FTP
```

```
%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

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

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

%LINK-3-UPDOWN: Interface FastEthernet0/1, changed state to down

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

%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 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)#
%LINK-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
```
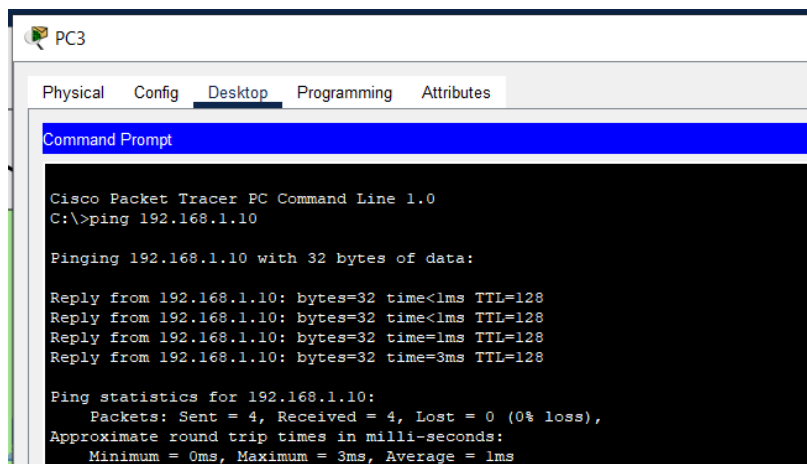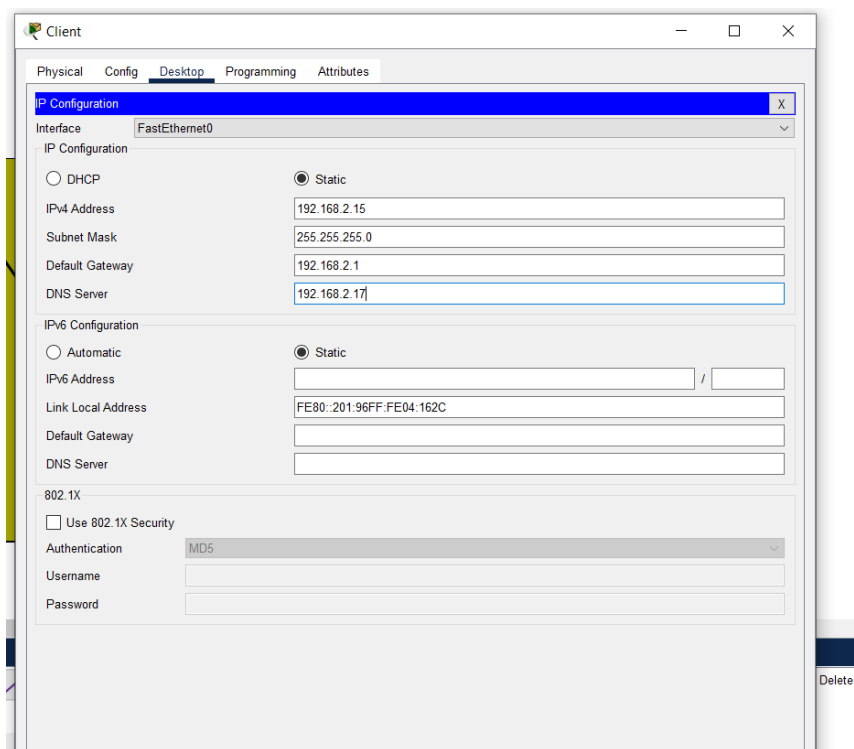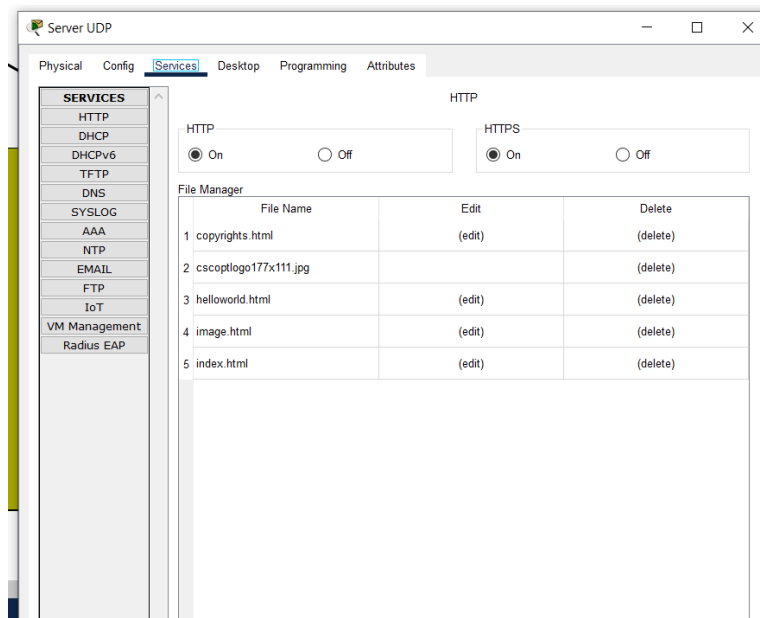
```
%LINK-3-UPDOWN: Interface FastEthernet0/4, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/4, changed state to down

%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 FastEthernet0/1, 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 S2
S2(config)#interface vlan 1
S2(config-if)#ip address 192.168.2.1
% Incomplete command.
S2(config-if)#ip address 192.168.2.1 255.255.255.0
S2(config-if)#no shutdown

S2(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up
%IP-4-DUPADDR: Duplicate address 192.168.2.1 on Vlan1, sourced by 00D0.BA98.E002
exit
S2(config)#
```

Copy   Paste

PC3

Physical Config Desktop Programming Attributes

Command Prompt

```
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<1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=1ms TTL=128
Reply from 192.168.1.10: bytes=32 time=3ms 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 = 3ms, Average = 1ms
```

Server UDP

Physical | Config | Services | Desktop | Programming | Attributes

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

HTTP

HTTP ● On ○ Off

HTTPS ● On ○ Off

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x111.jpg		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)

Client

Physical | Config | Desktop | Programming | Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration
- ○ DHCP   ● Static
- IPv4 Address: 192.168.2.15
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.2.1
- DNS Server: 192.168.2.17

IPv6 Configuration
- ○ Automatic   ● Static
- IPv6 Address: _____ / ___
- Link Local Address: FE80::201:96FF:FE04:162C
- Default Gateway: _____
- DNS Server: _____

802.1X
- ☐ Use 802.1X Security
- Authentication: MD5
- Username: _____
- Password: _____

Delete

Conclusion

Ce TD me permet de comprendre comment configurer et utiliser le protocole FTP dans un réseau, les principes fondamentaux de TCP et son utilisation pratique dans des protocoles comme HTTP et FTP et le fonctionnement du protocole **UDP** (User Datagram Protocol), qui est un protocole de communication sans connexion, par rapport au protocole TCP.

Il me permet aussi de comprendre mieux comment Configurer un serveur FTP dans une topologie réseau, de tester le transfert de fichiers entre des clients et le serveur FTP, de faire la simulation d'un transfert de données via un service utilisant TCP.