

FACULTÉ DES SCIENCES ET DES TECHNOLOGIES

(FST)

Troisieme Annee

RAPPORT

Sur le travail de Laboratoire #05

COURS

Reseau I

PROFESSEUR

Ismael Saint Amour

PREPARE PAR:

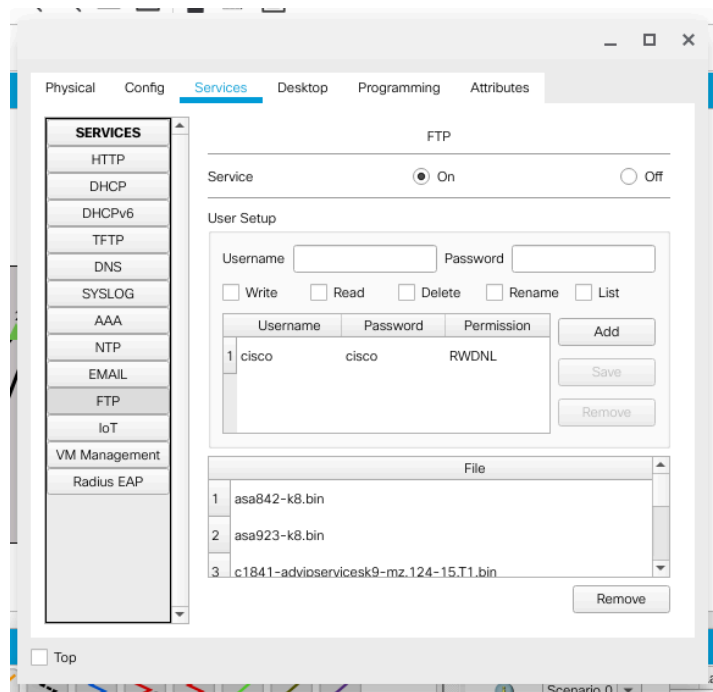
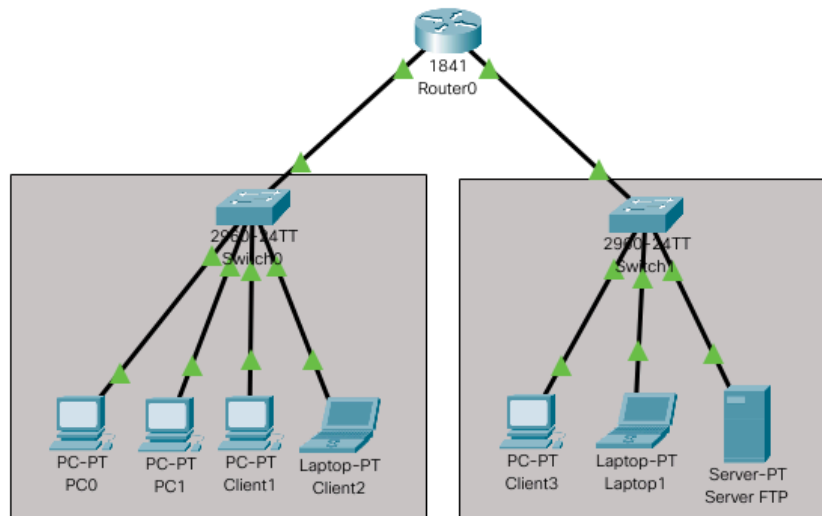
Peterson CHERY

SESSION

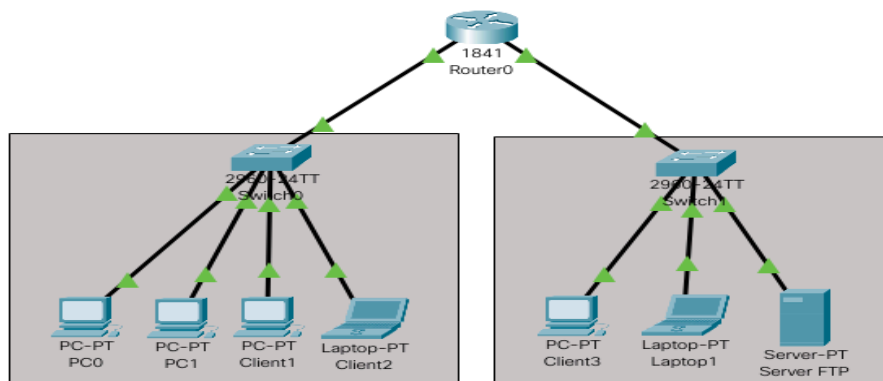
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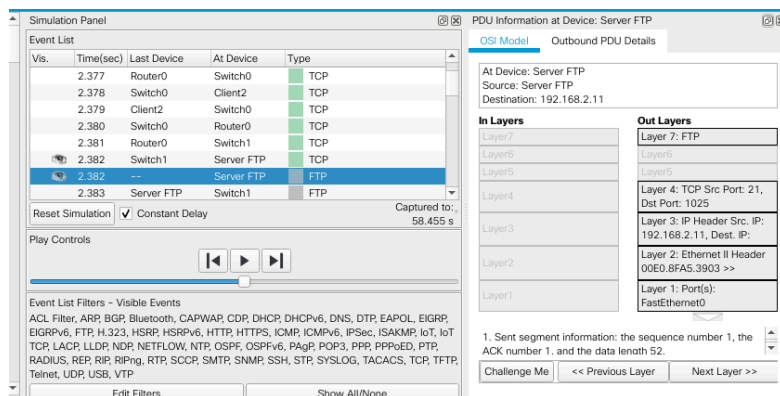
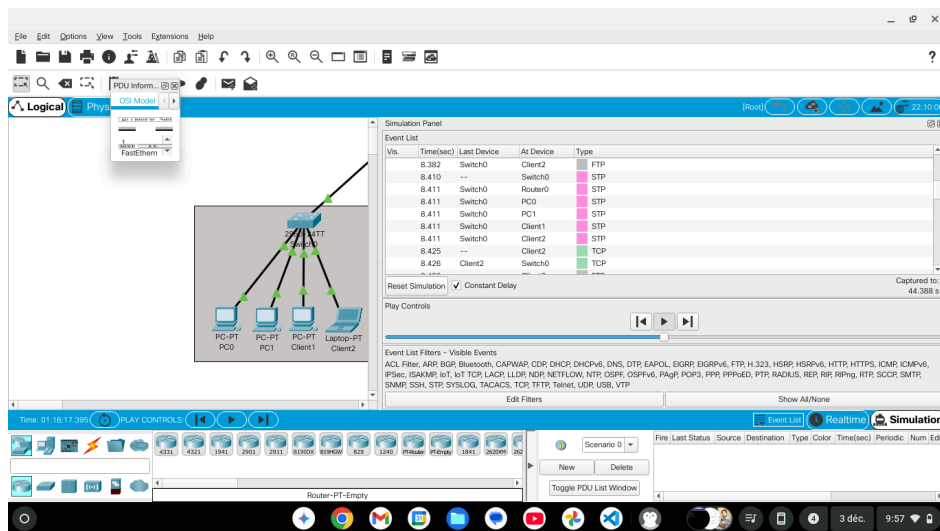
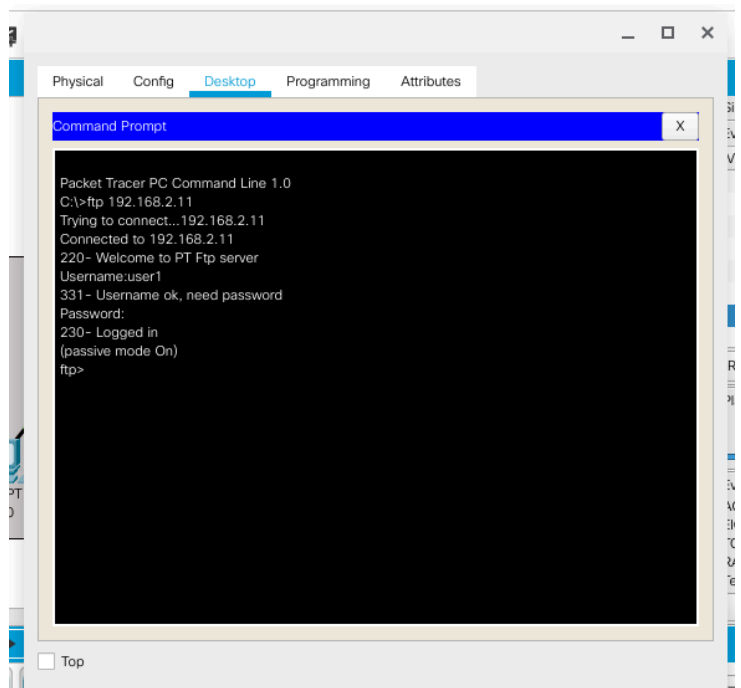
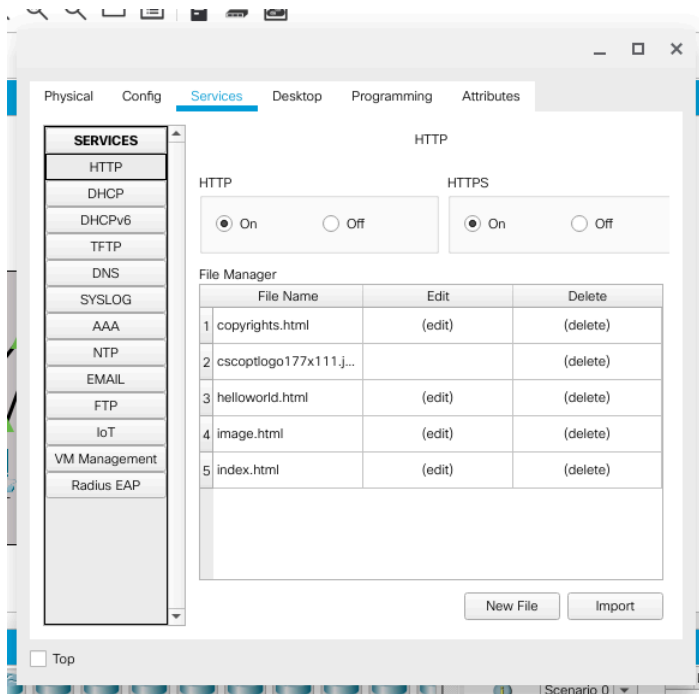
03/12/2024

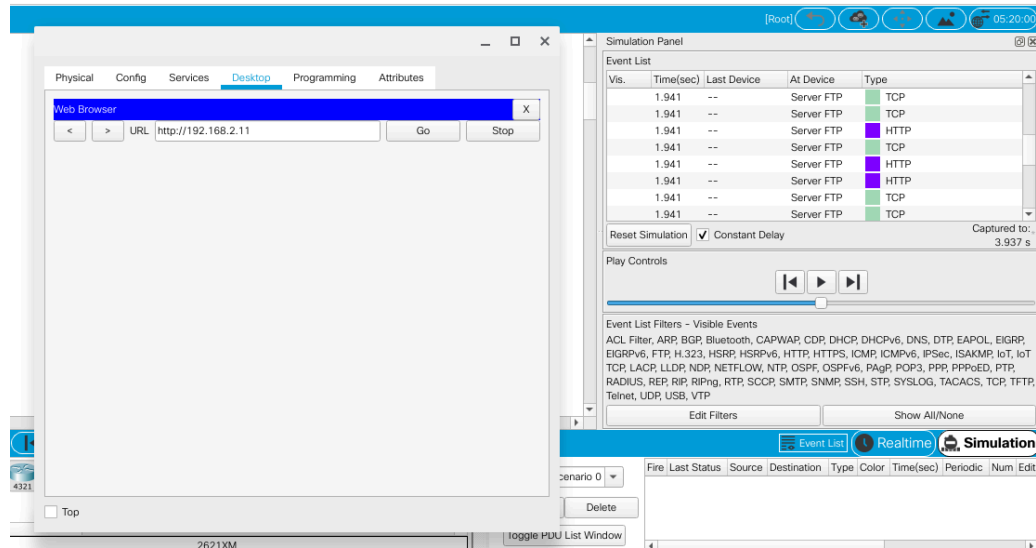
1) Reproduction d'une topologie en configurant le protocole FTP.



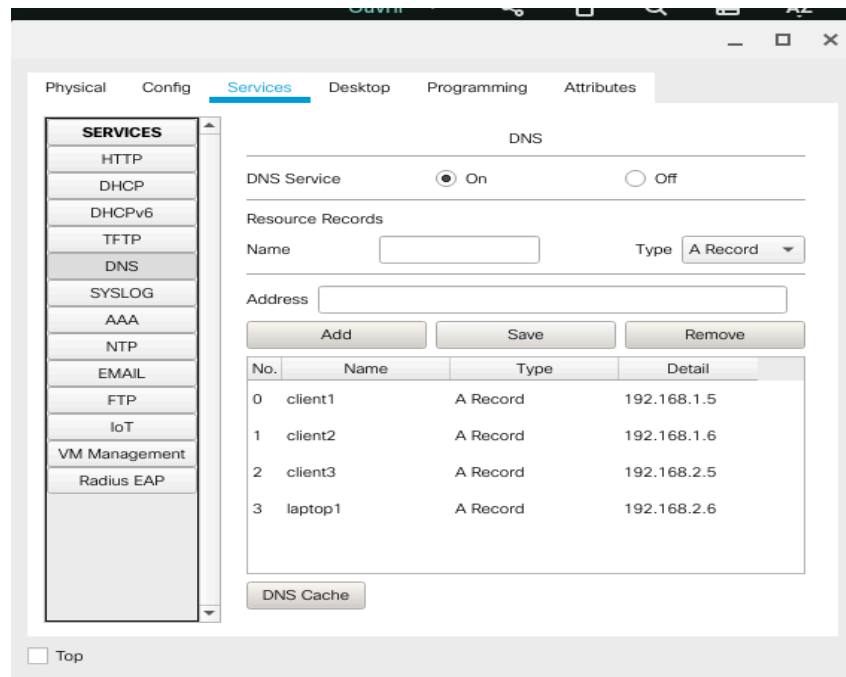
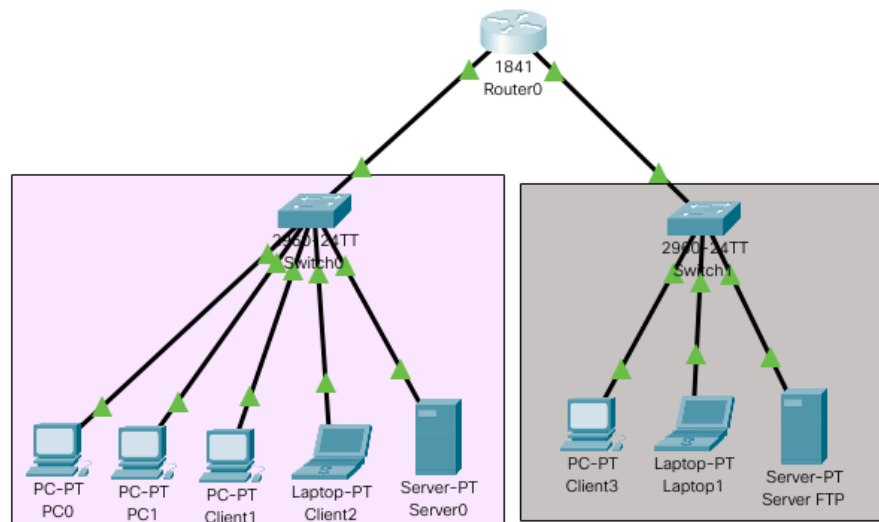
2) Reproduction d'une topologie en configurant et en testant le protocole TCP.







3) Reproduction d'une topologie en configurant et en testant le protocole UDP.



Physical Config Desktop Programming Attributes

Command Prompt

```

Trying to connect to 192.168.2.11
Connected to 192.168.2.11
220- Welcome to PT Ftp server
Username:user1
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>quit

221- Service closing control connection.
C:\>ping Client3

Pinging 192.168.2.5 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.5: bytes=32 time=8ms TTL=127
Reply from 192.168.2.5: bytes=32 time=8ms TTL=127
Reply from 192.168.2.5: bytes=32 time=8ms TTL=127

Ping statistics for 192.168.2.5:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 8ms, Maximum = 8ms, Average = 8ms

C:\>

```

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.623	Switch1	Server FTP	STP
	0.623	Client2	Switch0	DNS
	0.624	Switch0	Router0	DNS
	0.625	Router0	Switch1	DNS
	0.626	Switch1	Server FTP	DNS
	0.627	Server FTP	Switch1	DNS
	0.628	Switch1	Router0	DNS
	0.629	Router0	Switch0	DNS

Reset Simulation ☒ Constant Delay Captured to: 11.727 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, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

PDU Information at Device: Client2

OSI Model Outbound PDU Details

At Device: Client2
Source: Client2
Destination: 192.168.2.11

In Layers

Layer7
Layer6
Layer5
Layer4
Layer3
Layer2
Layer1

Out Layers

Layer 7: DNS
Layer6
Layer5
Layer 4: UDP Src Port: 1025, Dst Port: 53
Layer 3: IP Header Src. IP: 192.168.1.6, Dest. IP: 192.168.2.11
Layer 2: Ethernet II Header 000C.85B8.595B >> 0090.2B98.A701
Layer 1: Port(s): FastEthernet0

1. The device encapsulates the PDU into an UDP segment.

Challenge Me

<< Previous Layer

Next Layer >>

PDU Information at Device: Server FTP

OSI Model Inbound PDU Details Outbound PDU Details

At Device: Server FTP
Source: Client2
Destination: 192.168.2.11

In Layers	Out Layers
Layer 7: DNS	Layer 7: DNS
Layer 6	Layer 6
Layer 5	Layer 5
Layer 4: UDP Src Port: 1025, Dst Port: 53	Layer 4: UDP Src Port: 53, Dst Port: 1025
Layer 3: IP Header Src. IP: 192.168.1.6, Dest. IP: 192.168.2.11	Layer 3: IP Header Src. IP: 192.168.2.11, Dest. IP: 192.168.1.6
Layer 2: Ethernet II Header 0090.2B98.A702 >> 00E0.8FA5.3903	Layer 2: Ethernet II Header 00E0.8FA5.3903 >> 0090.2B98.A702
Layer 1: Port FastEthernet0	Layer 1: Port(s): FastEthernet0

Conclusion:

J'ai appris les compétences nécessaires pour créer une topologie en configurant et testant les protocoles TCP, FTP, UDP.