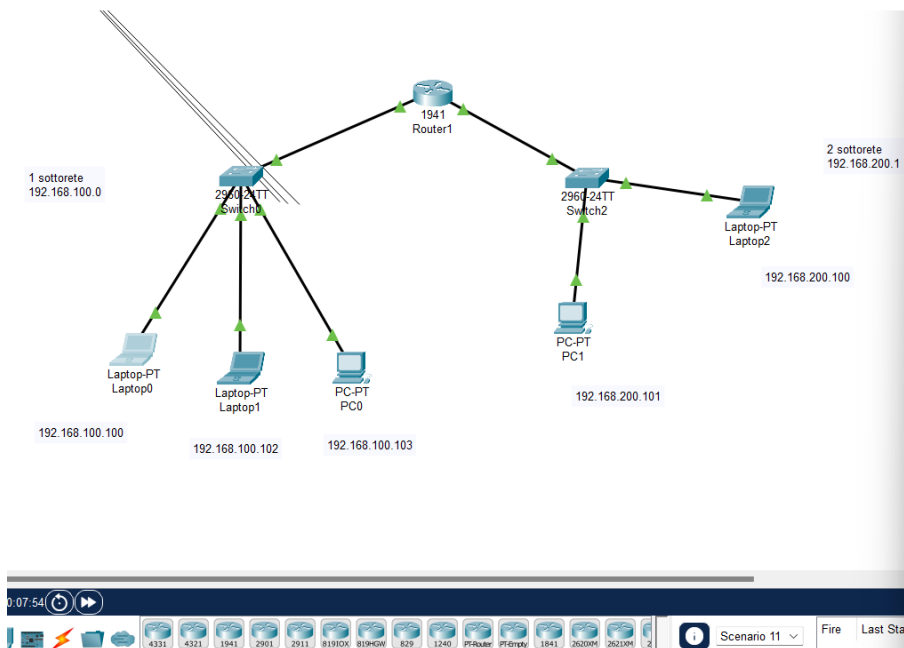


W2D1 - Pratica (2)



```
C:\>ping 192.168.100.103

Pinging 192.168.100.103 with 32 bytes of data:

Reply from 192.168.100.103: bytes=32 time<lms TTL=128
Reply from 192.168.100.103: bytes=32 time<lms TTL=128
Reply from 192.168.100.103: bytes=32 time<lms TTL=128
Reply from 192.168.100.103: bytes=32 time<lms TTL=128

Ping statistics for 192.168.100.103:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.200.100

Pinging 192.168.200.100 with 32 bytes of data:

Reply from 192.168.200.100: bytes=32 time<lms TTL=127
Reply from 192.168.200.100: bytes=32 time<lms TTL=127
Reply from 192.168.200.100: bytes=32 time<lms TTL=127
Reply from 192.168.200.100: bytes=32 time<lms TTL=127

Ping statistics for 192.168.200.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

```
C:\>ping 192.168.100.103

Pinging 192.168.100.103 with 32 bytes of data:

Reply from 192.168.100.103: bytes=32 time<lms TTL=128
Reply from 192.168.100.103: bytes=32 time<lms TTL=128
Reply from 192.168.100.103: bytes=32 time<lms TTL=128
Reply from 192.168.100.103: bytes=32 time<lms TTL=128

Ping statistics for 192.168.100.103:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.200.100

Pinging 192.168.200.100 with 32 bytes of data:

Reply from 192.168.200.100: bytes=32 time<lms TTL=127
Reply from 192.168.200.100: bytes=32 time<lms TTL=127
Reply from 192.168.200.100: bytes=32 time<lms TTL=127
Reply from 192.168.200.100: bytes=32 time<lms TTL=127

Ping statistics for 192.168.200.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Ho messo in comunicazione il laptop-PT0 con IP 192.168.100.100 con il PC-PT-PC0 con IP 192.168.100.103 (primo ping del terminale)

Ho messo in comunicazione il laptop-PT0 con IP 192.168.100.100 con il laptop-PT2 con IP 192.168.200.100 (secondo ping del terminale)

Durante il tragitto di un pacchetto mandato da Laptop-PT-Laptop0 verso Laptop-PT-Laptop2 "source MAC", "destination MAC" e "source IP" e "destination IP" cambiano:

PDU Information at Device: Laptop0

OSI Model Outbound PDU Details

PDU Formats

EthernetII

0	4	8	Bytes
PREAMBLE: 101010...10		SF D	DEST ADDR: 0030.F253.2501
SRC ADDR: 0040.0B20.5B21		TYPE: 0x0800	DATA (VARIABLE LENGTH) FCS: 0x00000000

IP

0	4	8	16	20	24	Bits
VER: 4		IHL: 5		DSCP: 0x00		TL: 28
ID: 0x003c				FLAGS: 0x0		FRAG OFFSET: 0x000
TTL: 255		PRO: 0x01		CHKSUM		
SRC IP: 192.168.100.100						
DST IP: 192.168.200.100						
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	Bits
TYPE: 0x08		CODE: 0x00	CHECKSUM
ID: 0x0024		SEQ NUMBER: 44	

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	Laptop0	
	0.001	Laptop0	Switch0	
	0.002	Switch0	Router1	
	0.003	Router1	Switch2	
	0.004	Switch2	Laptop2	
	0.005	Laptop2	Switch2	
	0.006	Switch2	Router1	
	0.007	Router1	Switch0	
	0.008	Switch0	Laptop0	

Reset Simulation ☒ Constant Delay Captured to: 0.008 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

PDU Information at Device: Switch0

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

0	4	8	Bytes
PREAMBLE: 101010...10		SF D	DEST ADDR: 0030.F253.2501
SRC ADDR: 0040.0B20.5B21		TYPE: 0x0800	DATA (VARIABLE LENGTH) FCS: 0x00000000

IP

0	4	8	16	20	24	Bits
VER: 4		IHL: 5		DSCP: 0x00		TL: 28
ID: 0x003c				FLAGS: 0x0		FRAG OFFSET: 0x000
TTL: 255		PRO: 0x01		CHKSUM		
SRC IP: 192.168.100.100						
DST IP: 192.168.200.100						
DATA (VARIABLE LENGTH)						

ICMP

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	Laptop0	
	0.001	Laptop0	Switch0	
	0.002	Switch0	Router1	
	0.003	Router1	Switch2	
	0.004	Switch2	Laptop2	
	0.005	Laptop2	Switch2	
	0.006	Switch2	Router1	
	0.007	Router1	Switch0	
	0.008	Switch0	Laptop0	

Reset Simulation ☒ Constant Delay Captured to: 0.008 s

Play Controls

PDU Information at Device: Router1

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

0		4		8		Bytes	
PREAMBLE: 101010...10				SF	D	DEST ADDR: 0030.F253.2501	
SRC ADDR: 0040.0B20.5B21		TYPE: 0x0800		DATA (VARIABLE LENGTH)		FCS: 0x00000000	

IP

0		4		8		16		20		24		Bits	
VER: 4		IHL: 5		DSCP: 0x00		TL: 28							
ID: 0x003c								FLAGS: 0x0		FRAG OFFSET: 0x000			
TTL: 255				PRO: 0x01				CHKSUM					
SRC IP: 192.168.100.100													
DST IP: 192.168.200.100													
DATA (VARIABLE LENGTH)													

ICMP

0		8		16		Bits	
---	--	---	--	----	--	------	--

Event List

s.	Time(sec)	Last Device	At Device
0.000	--	--	Laptop0
0.001	Laptop0	Switch0	Router1
0.002	Switch0	Router1	Switch2
0.003	Router1	Switch2	Laptop2
0.004	Switch2	Laptop2	Switch2
0.005	Laptop2	Switch2	Router1
0.006	Switch2	Router1	Switch0
0.007	Router1	Switch0	Laptop0
0.008	Switch0	--	--

Reset Simulation ☒ Constant Delay Captured 0.00

Play Controls

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PDU Information at Device: Switch2

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

0		4		8		Bytes	
PREAMBLE: 101010...10				SF	D	DEST ADDR: 0030.A3DE.686D	
SRC ADDR: 0030.F253.2502		TYPE: 0x0800		DATA (VARIABLE LENGTH)		FCS: 0x00000000	

IP

0		4		8		16		20		24		Bits	
VER: 4		IHL: 5		DSCP: 0x00		TL: 28							
ID: 0x003c								FLAGS: 0x0		FRAG OFFSET: 0x000			
TTL: 254				PRO: 0x01				CHKSUM					
SRC IP: 192.168.100.100													
DST IP: 192.168.200.100													
DATA (VARIABLE LENGTH)													

Event List

s.	Time(sec)	Last Device	At Device
0.000	--	--	Laptop0
0.001	Laptop0	Switch0	Router1
0.002	Switch0	Router1	Switch2
0.003	Router1	Switch2	Laptop2
0.004	Switch2	Laptop2	Switch2
0.005	Laptop2	Switch2	Router1
0.006	Switch2	Router1	Switch0
0.007	Router1	Switch0	Laptop0
0.008	Switch0	--	--

Reset Simulation ☒ Constant Delay Captured 0.008

Play Controls

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PDU Information at Device: Laptop2

OSI Model Inbound PDU Details Outbound PDU Details

PDU Formats

EthernetII

0		4		8		Bytes	
PREAMBLE: 101010...10				SF	D	DEST ADDR: 0030.A3DE.686D	
SRC ADDR: 0030.F253.2502		TYPE: 0x0800		DATA (VARIABLE LENGTH)		FCS: 0x00000000	

IP

0		4		8		16		20		24		Bits	
VER: 4		IHL: 5		DSCP: 0x00		TL: 28							
ID: 0x003c								FLAGS: 0x0		FRAG OFFSET: 0x000			
TTL: 254				PRO: 0x01				CHKSUM					
SRC IP: 192.168.100.100													
DST IP: 192.168.200.100													
DATA (VARIABLE LENGTH)													

ICMP

Event List

s.	Time(sec)	Last Device	At Device
0.000	--	--	Laptop0
0.001	Laptop0	Switch0	Router1
0.002	Switch0	Router1	Switch2
0.003	Router1	Switch2	Laptop2
0.004	Switch2	Laptop2	Switch2
0.005	Laptop2	Switch2	Router1
0.006	Switch2	Router1	Switch0
0.007	Router1	Switch0	Laptop0
0.008	Switch0	--	--

Reset Simulation ☒ Constant Delay Captured 0.008

Play Controls

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PDU Information at Device: Switch2

OSI Model [Inbound PDU Details](#) Outbound PDU Details

PDU Formats

EthernetII

048Bytes

PREAMBLE: 101010..10

SF D

DEST ADDR:0030.F253.2502

SRC ADDR:0030.A3DE.686D

TYPE:0x0800

DATA (VARIABLE LENGTH)

FCS:0x00000000

IP

048162024Bits

VER:4

IHL:5

DSCP:0x00

TL:28

ID:0x000f

FLAGS:0x0

FRAG OFFSET:0x000

TTL:128

PRO:0x01

CHKSUM

SRC IP:192.168.200.100

DST IP:192.168.100.100

Event List

s.	Time(sec)	Last Device	At Device	Type
0.000	--	--	Laptop0	T
0.001	Laptop0	Switch0		
0.002	Switch0	Router1		
0.003	Router1	Switch2		
0.004	Switch2	Laptop2		
0.005	Laptop2	Switch2		
0.006	Switch2	Router1		
0.007	Router1	Switch0		
0.008	Switch0	Laptop0		

Reset Simulation

☒ Constant Delay

Captured to: 0.008 s

Play Controls

PDU Information at Device: Router1

OSI Model [Inbound PDU Details](#) Outbound PDU Details

PDU Formats

EthernetII

048Bytes

PREAMBLE: 101010..10

SF D

DEST ADDR:0030.F253.2502

SRC ADDR:0030.A3DE.686D

TYPE:0x0800

DATA (VARIABLE LENGTH)

FCS:0x00000000

IP

048162024Bits

VER:4

IHL:5

DSCP:0x00

TL:28

ID:0x000f

FLAGS:0x0

FRAG OFFSET:0x000

TTL:128

PRO:0x01

CHKSUM

SRC IP:192.168.200.100

DST IP:192.168.100.100

DATA (VARIABLE LENGTH)

Event List

s.	Time(sec)	Last Device	At Device	Type
0.000	--	--	Laptop0	T
0.001	Laptop0	Switch0		
0.002	Switch0	Router1		
0.003	Router1	Switch2		
0.004	Switch2	Laptop2		
0.005	Laptop2	Switch2		
0.006	Switch2	Router1		
0.007	Router1	Switch0		
0.008	Switch0	Laptop0		

Reset Simulation

☒ Constant Delay

Captured to: 0.008 s

Play Controls

PDU Information at Device: Switch0

OSI Model [Inbound PDU Details](#) Outbound PDU Details

PDU Formats

EthernetII

048Bytes

PREAMBLE: 101010..10

SF D

DEST ADDR:0040.0B20.5B21

SRC ADDR:0030.F253.2501

TYPE:0x0800

DATA (VARIABLE LENGTH)

FCS:0x00000000

IP

048162024Bits

VER:4

IHL:5

DSCP:0x00

TL:28

ID:0x000f

FLAGS:0x0

FRAG OFFSET:0x000

TTL:127

PRO:0x01

CHKSUM

SRC IP:192.168.200.100

DST IP:192.168.100.100

DATA (VARIABLE LENGTH)

Event List

s.	Time(sec)	Last Device	At Device	Type
0.000	--	--	Laptop0	T
0.001	Laptop0	Switch0		
0.002	Switch0	Router1		
0.003	Router1	Switch2		
0.004	Switch2	Laptop2		
0.005	Laptop2	Switch2		
0.006	Switch2	Router1		
0.007	Router1	Switch0		
0.008	Switch0	Laptop0		

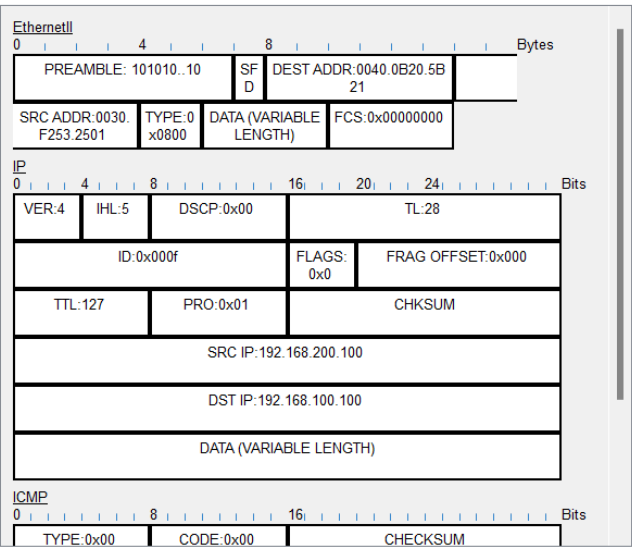
Reset Simulation

☒ Constant Delay

Captured to: 0.008 s

Play Controls

PDU Formats



Event List				
s.	Time(sec)	Last Device	At Device	T
	0.000	--	Laptop0	
	0.001	Laptop0	Switch0	
	0.002	Switch0	Router1	
	0.003	Router1	Switch2	
	0.004	Switch2	Laptop2	
	0.005	Laptop2	Switch2	
	0.006	Switch2	Router1	
	0.007	Router1	Switch0	
	0.008	Switch0	Laptop0	

Reset Simulation ☒ Constant Delay Captured: 0.008

Event Controls

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Event List Filters - Visible Events

Filter: ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP,