PDU Information at Device: Switch7

OSI Model   Inbound PDU Details   **Outbound PDU Details**

PDU Formats

EthernetII

0	4	8	Bytes

PREAMBLE: 101010..10		DEST ADDR:0030.F 256.37DB	
SRC ADDR: 0060.2F27.	T Y	DATA (VAR IABLE LEN	FCS:0x000 00000

IP

0	4	8	16	20	24	Bits

VER:4	IHL:5	DSCP:0x00		TL:128	
ID:0x0006		FL AG	FRAG OFFSET:0x000		
TTL:128	PRO:0x01		CHKSUM		
SRC IP:192.168.100.100					
DST IP:192.168.100.103					
DATA (VARIABLE LENGTH)					

ICMP

0	8	16	Bits

TYPE:0x08	CODE:0x00	CHECKSUM
ID:0x0003		SEQ NUMBER:6

Laptop-PT Laptop2

Laptop-PT Laptop0

2960-
Switch7

Laptop-PT Laptop1

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.001	Laptop0
	0.002	Switch7
	0.003	Router4
	0.004	Switch6
	0.004	Switch6
	0.005	Laptop2
	0.006	Switch6

Reset Simulation ☑ Constant Delay Captured
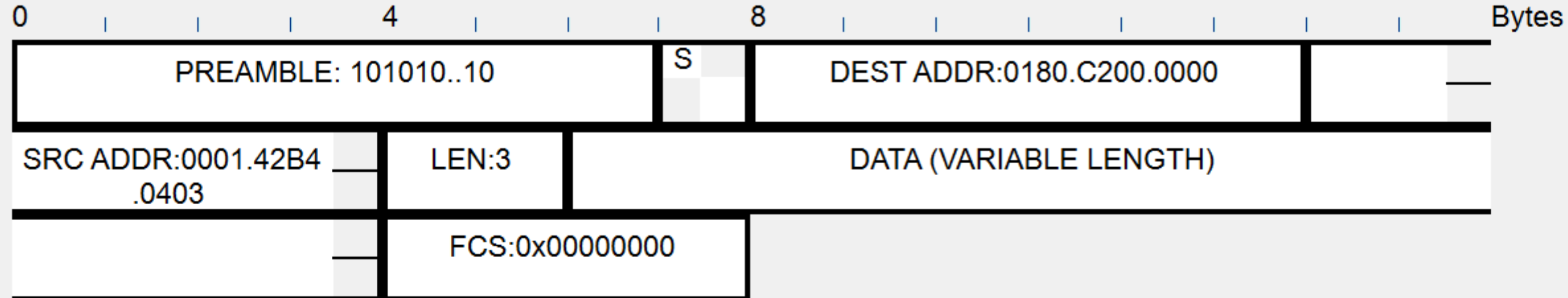0.006

Play Controls

|◀ ❚❚ ▶|

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHC
DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP,
323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6,
IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP,
NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP,
PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCF
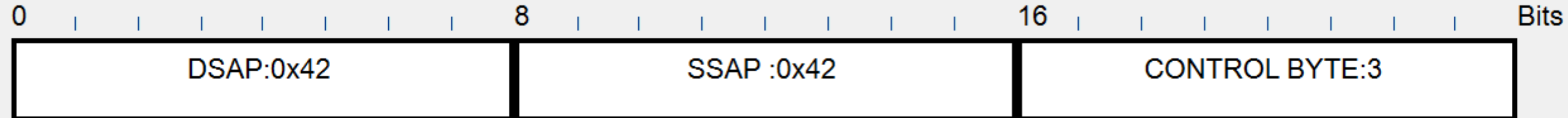SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP,
TFTP, Telnet, UDP, USB, VTP

Edit Filters   Show All/None

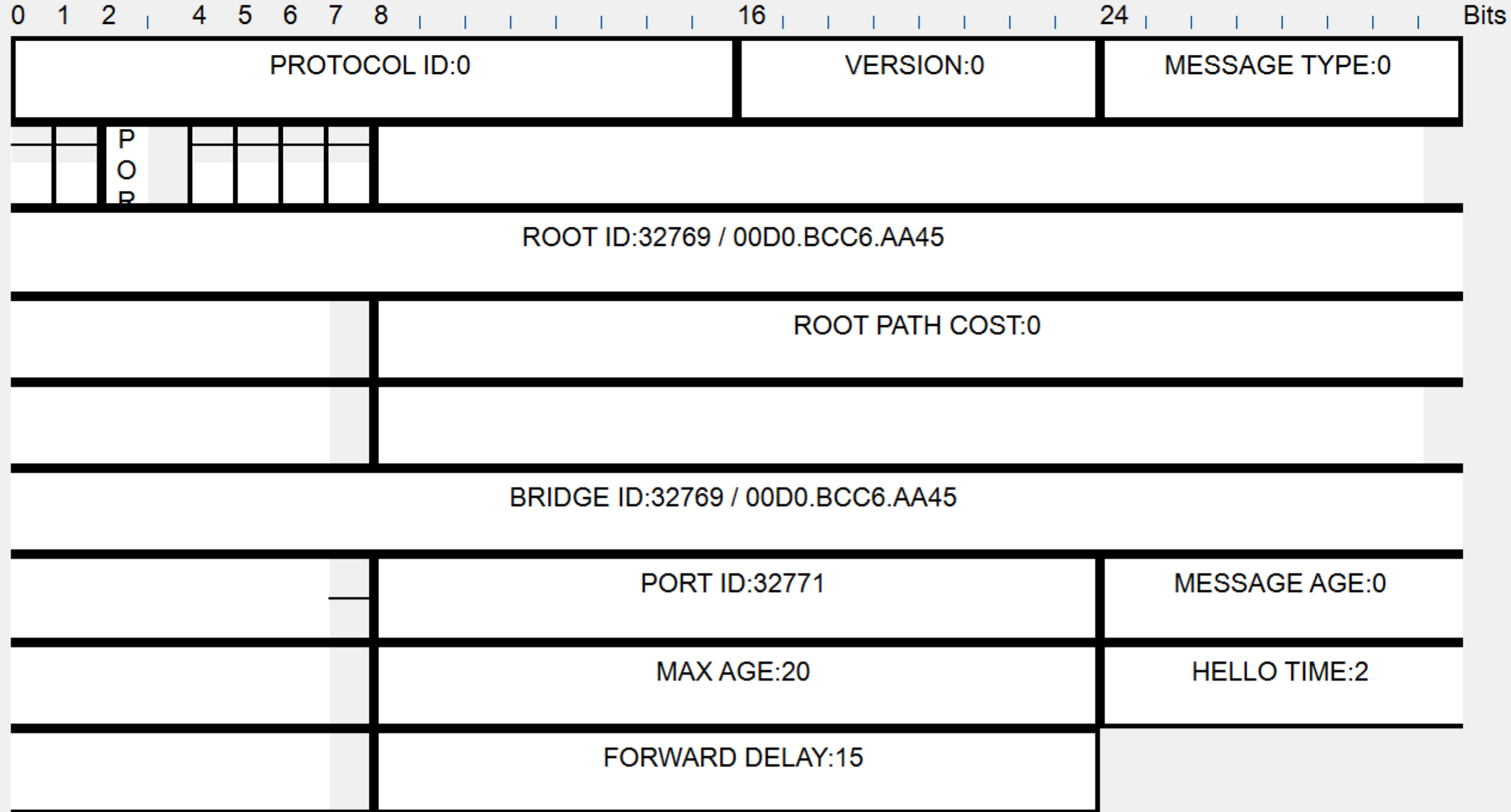## PDU Information at Device: Switch6

OSI Model   Inbound PDU Details   Outbound PDU Details

PDU Formats

EthernetII

0		4		8		Bytes
PREAMBLE: 101010..10		DEST ADDR:000B.BE87.B002				
SRC ADDR: 0030.F247.	TYP	DATA (VARIABLE LEN)	FCS:0x00000000			

IP

0	4	8	16	20	24	Bits
VER:4	IHL:5	DSCP:0x00	TL:128			
ID:0x0008			FLAG	FRAG OFFSET:0x000		
TTL:128	PRO:0x01		CHKSUM			
SRC IP:192.168.200.100						
DST IP:192.168.100.100						
DATA (VARIABLE LENGTH)						

ICMP

0	8	16	Bits
TYPE:0x00	CODE:0x00	CHECKSUM	
ID:0x0006		SEQ NUMBER:17	

Laptop-PT
Laptop2

Laptop-PT
Laptop0

2960-24TT
Switch7

Laptop-PT
Laptop1

00:04:00.736 PLAY CONTROLS |◀ ❚❚ ▶|

Event List   Realtime   Simulatio

PDU Information at Device: Switch0

OSI Model   Outbound PDU Details

PDU Formats

Ethernet 802.3

Bytes	0 — 4 — 8
PREAMBLE: 101010..10	S	DEST ADDR:0180.C200.0000	
SRC ADDR:0001.42B4.0403	LEN:3	DATA (VARIABLE LENGTH)
FCS:0x00000000		

LLC

Bits: 0 — 8 — 16

DSAP:0x42	SSAP :0x42	CONTROL BYTE:3

STP BPDU

Bits: 0 1 2 — 4 5 6 7 8 — 16 — 24

PROTOCOL ID:0	VERSION:0	MESSAGE TYPE:0

| P O R | | |

ROOT ID:32769 / 00D0.BCC6.AA45

ROOT PATH COST:0

BRIDGE ID:32769 / 00D0.BCC6.AA45

PORT ID:32771	MESSAGE AGE:0
MAX AGE:20	HELLO TIME:2
FORWARD DELAY:15	

Laptop0

Physical   Config   **Desktop**   Programming   Attributes

Command Prompt   X

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=8ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 8ms, Average = 5ms

C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 4ms, Average = 4ms

C:\>
```
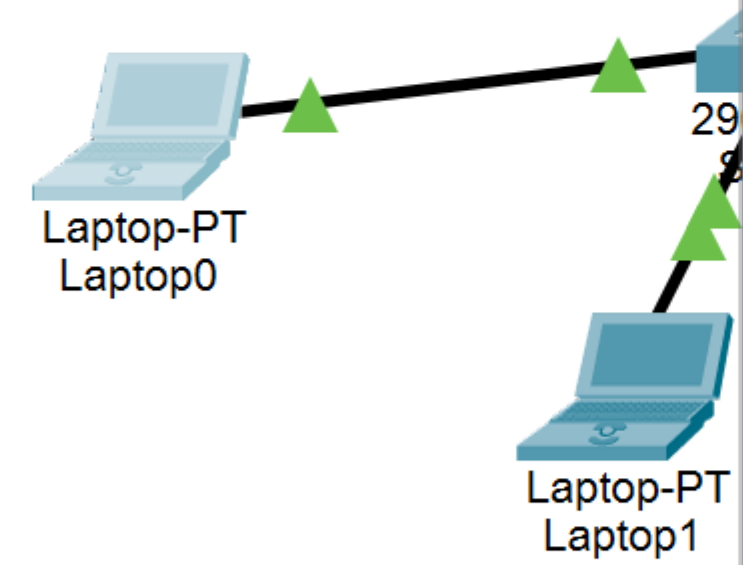
☐ Top

Laptop0

Physical | Config | **Desktop** | Programming | Attributes

Command Prompt | X

```
Cisco Packet Tracer PC Command Line 1.0
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<1ms TTL=128
Reply from 192.168.100.103: bytes=32 time<1ms TTL=128
Reply from 192.168.100.103: bytes=32 time<1ms TTL=128
Reply from 192.168.100.103: bytes=32 time<1ms 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:\>
```
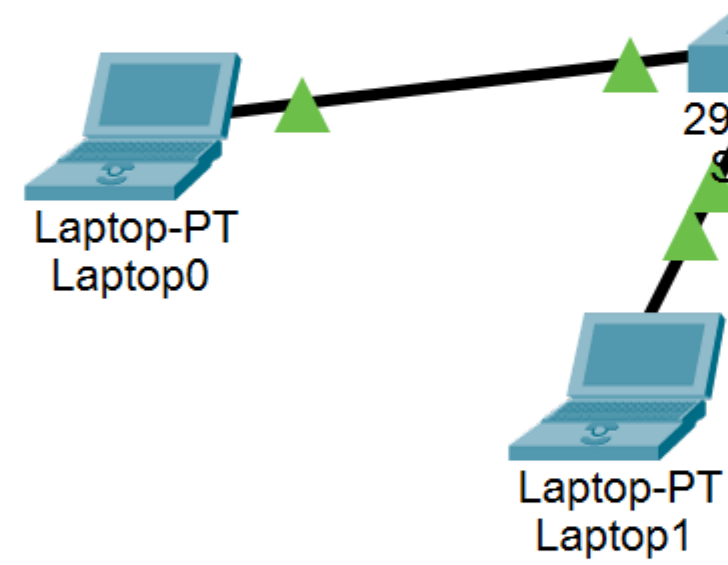
Laptop-PT
Laptop0

29

Laptop-PT
Laptop1

Router4

Physical | Config | CLI | Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0/0
GigabitEthernet0/0/1

GigabitEthernet0/0/1

Port Status	☑ On
Bandwidth	○ 1000 Mbps ● 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ● Full Duplex ☑ Auto
MAC Address	000B.BE87.B002

IP Configuration
IPv4 Address | 192.168.200.1
Subnet Mask | 255.255.255.0

Tx Ring Limit | 10

Equivalent IOS Commands

```
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
```

☐ Top

Laptop-PT
Laptop0

Laptop-PT
Laptop1

Scenario 0

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

4331 | 4321 | 1941 | 2901 | 2911 | 819IOX | 819HGW | 829 | 1240 | PT-Router | PT-Empl

Root 07:23:00
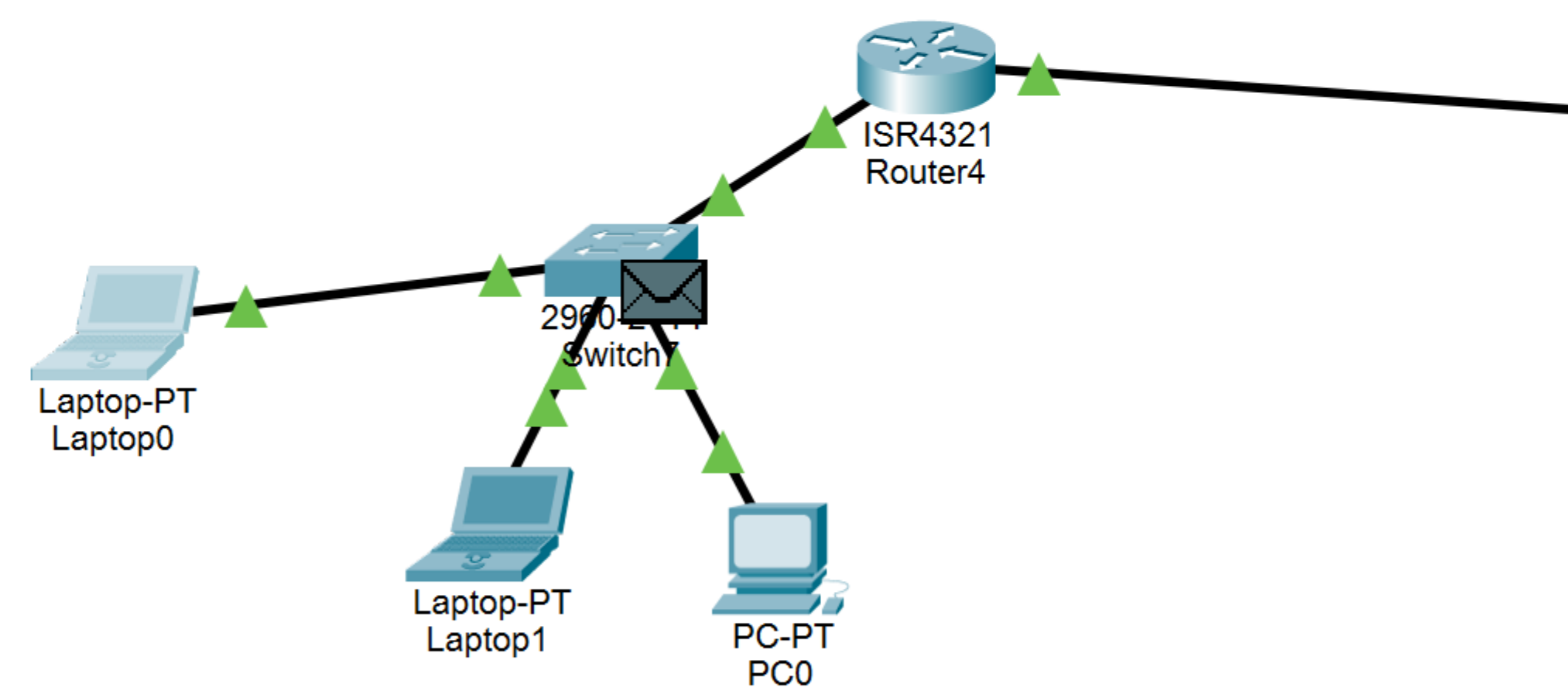
PDU Information at Device: Laptop0

OSI Model | Outbound PDU Details

PDU Formats

EthernetII

| 0 | | 4 | | 8 | | | Bytes |

| PREAMBLE: 101010..10 | | DEST ADDR:0030.F256.37D B | | |
| SRC ADDR:0060. 2F27.C433 | TYPE :0x08 | DATA (VARIABL E LENGTH) | FCS:0x00000000 | |

IP

| 0 | 4 | 8 | 16 | 20 | 24 | | Bits |

VER:4	IHL:5	DSCP:0x00	TL:128
ID:0x0016		FLAGS:0x 0	FRAG OFFSET:0x000
TTL:128	PRO:0x01	CHKSUM
SRC IP:192.168.100.100
DST IP:192.168.100.103
DATA (VARIABLE LENGTH)

ICMP

| 0 | | 8 | | 16 | | | Bits |

| TYPE:0x08 | CODE:0x00 | CHECKSUM |
| ID:0x0007 | SEQ NUMBER:22 |

Variable Size PDU

| 0 | | 8 | | 16 | | | Bytes |

| DATA (VARIABLE LENGTH) |

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.000	--
	0.001	Laptop0
	0.002	Switch7
	0.003	PC0
	0.004	Switch7
	1.004	--
	1.005	Laptop0
	1.006	Switch7
	1.007	PC0

Reset Simulation ☑ Constant Delay | Captured to: 1.007 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, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters | Show All/None

Laptop-PT Laptop0

ISR4321 Router4

2960 Switch7

Laptop-PT Laptop1

PC-PT PC0

Cisco Packet Tracer - C:\Users\ADR\Desktop\epicode\w2\esercizio w2d1 ultima parte.pkt

File   Edit   Options   View   Tools   Extensions   Window   Help

PDU Information at Device: Switch7

OSI Model   Inbound PDU Details   Outbound PDU Details

Root

09:41:30

PDU Formats

EthernetII

0	4	8		Bytes

PREAMBLE: 101 010..10   DEST ADDR: 000B.BE87.B

SRC A DDR:00   T   DATA (VARIA   FCS:0x 000000

IP

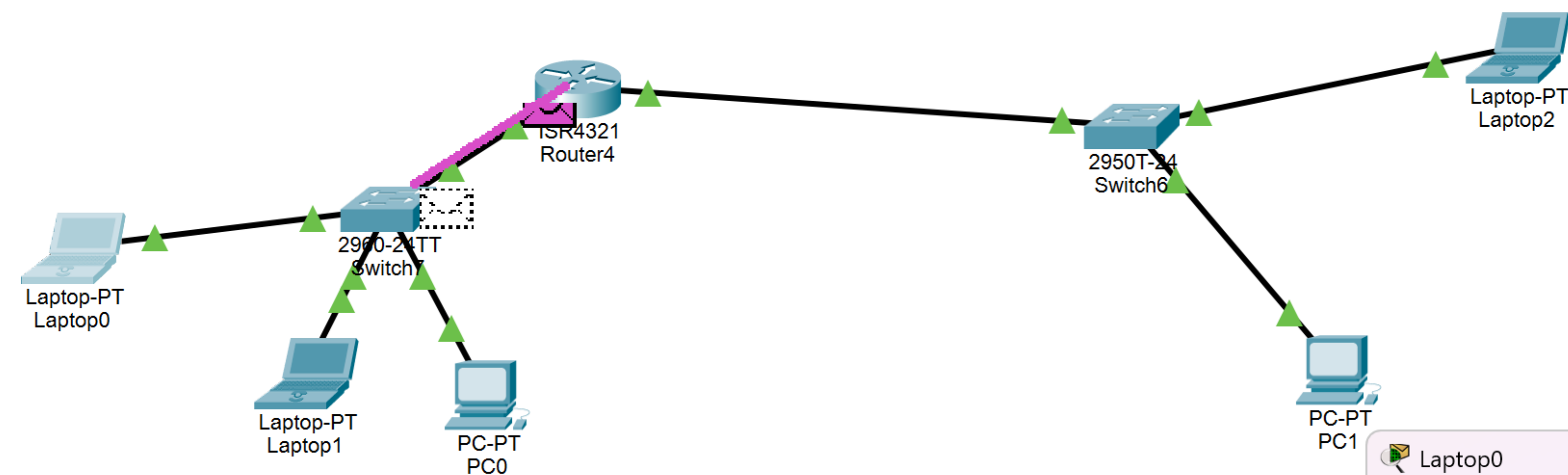| 0	4	8	16	20	24		Bits

V   I   DSCP:0 x00   TL:128

ID:0x001b   F L   FRAG OFFSET: 0x000

TTL:128   PRO:0x01   CHKSUM

SRC IP:192.168.100.100
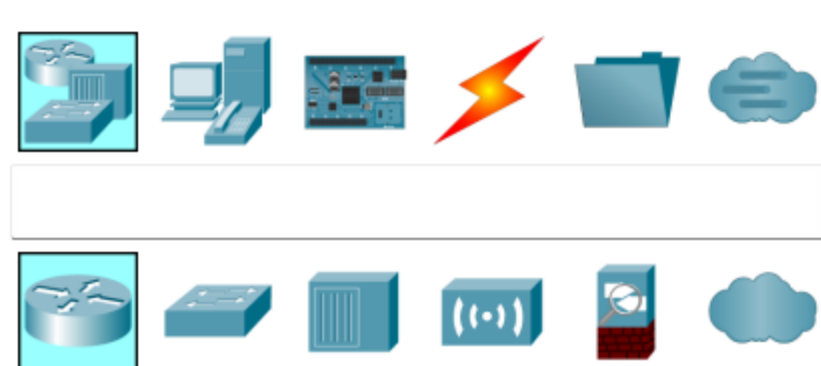
DST IP:192.168.200.100

DATA (VARIABLE LENGTH)

ICMP

0	8	16		Bits

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	0.174	--
	0.175	Switch6
	0.175	Switch6
	0.175	Switch6
	1.011	--
	1.012	Laptop0
	1.013	Switch7
	1.014	Router4
	1.015	Switch6
	1.016	Laptop2
	1.017	Switch6
	1.018	Router4
	1.019	Switch7
	2.022	--
	2.023	Laptop0
	2.024	Switch7
	2.025	Router4
	2.026	Switch6
	2.027	Laptop2
	2.028	Switch6
	2.029	Router4

ISR4321 Router4

2950T-24 Switch6

Laptop-PT Laptop2

2960-24TT Switch7

Laptop-PT Laptop0

Laptop-PT Laptop1

PC-PT PC0

PC-PT PC1

Laptop0

Minimum = 8ms, Maximum = 8ms, Average = 8ms

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=4ms TTL=128
Reply from 192.168.100.103: bytes=32 time=4ms TTL=128
Reply from 192.168.100.103: bytes=32 time=4ms TTL=128
Reply from 192.168.100.103: bytes=32 time=4ms 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 = 4ms, Maximum = 4ms, Average = 4ms

C:\>ping 192.168.200

Ping request could not find host 192.168.200. Please check the name and try again.
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=8ms TTL=127
Reply from 192.168.200.100: bytes=32 time=8ms TTL=127
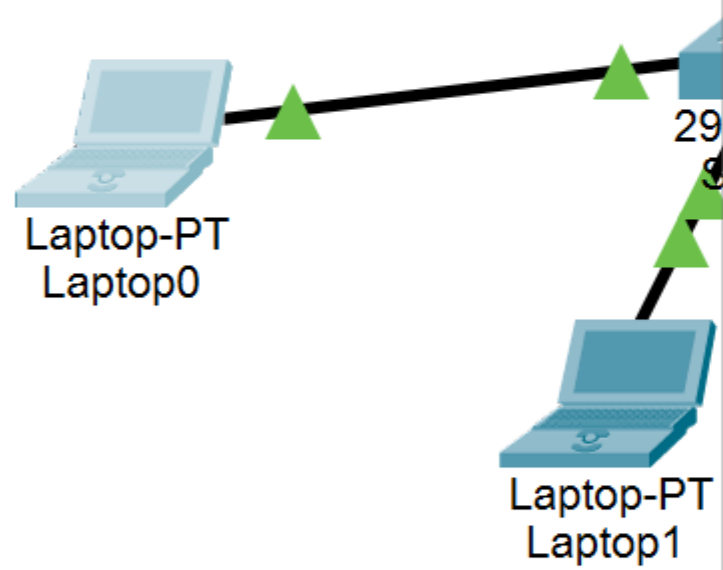
Time: 00:04:26.790   PLAY CONTROLS:

Scenario 0

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

New   Delete

Toggle PDU List Window

Router-PT-Empty

4331   4321   1941   2901   2911   819IOX   819HGW   829   1240   PT-Router   PT-Empty

3°C   Nuvoloso

Cerca

22:12
03/03/2025

Laptop0

Physical | Config | **Desktop** | Programming | Attributes

IP Configuration   X

Interface | FastEthernet0

IP Configuration

○ DHCP   ● Static

IPv4 Address | 192.168.100.100
Subnet Mask | 255.255.255.0
Default Gateway | 192.168.100.1
DNS Server | 0.0.0.0

IPv6 Configuration

● Automatic   ○ Static

IPv6 Address | /
Link Local Address | FE80::260:2FFF:FE27:C433
Default Gateway |
DNS Server |

802.1X

☐ Use 802.1X Security

Authentication | MD5
Username |
Password |

☐ Top

Laptop-PT
Laptop0

Laptop-PT
Laptop1

29

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

Scenario 0

PC0

Physical | Config | **Desktop** | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0   ⌄

IP Configuration

○ DHCP   ● Static

IPv4 Address   192.168.100.103

Subnet Mask   255.255.255.0

Default Gateway   192.168.100.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address   /

Link Local Address   FE80::230:F2FF:FE56:37DB

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security
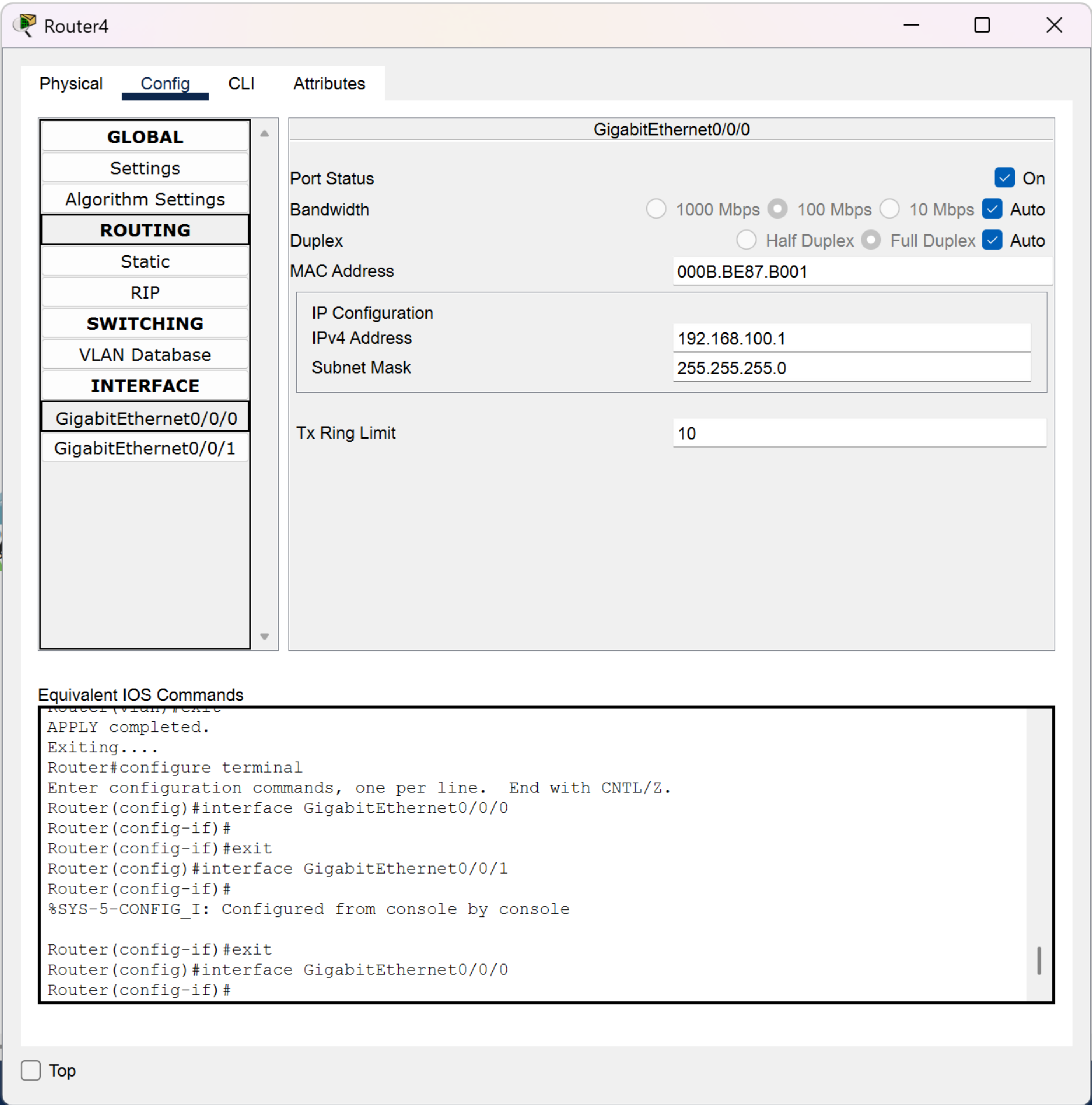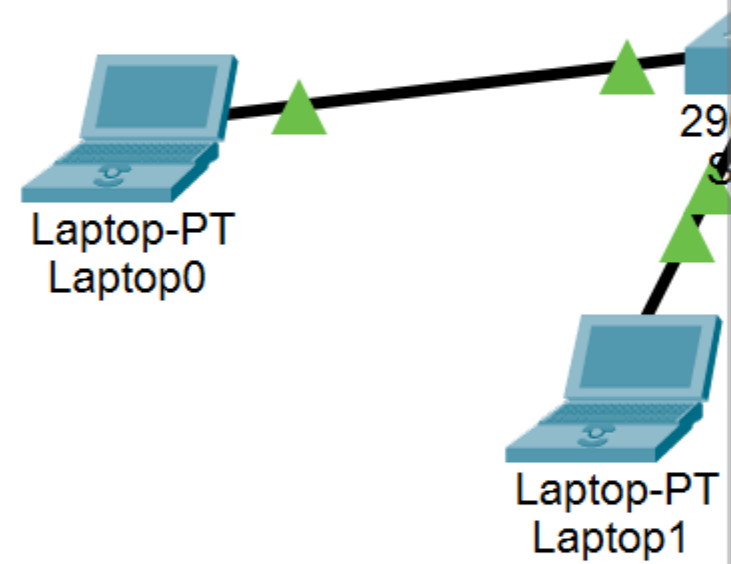
Authentication   MD5   ⌄

Username

Password

☐ Top

29

Laptop-PT
Laptop1

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

ⓘ   Scenario 0 ⌄

New   Delete

Router4

Physical   **Config**   CLI   Attributes

GLOBAL	
Settings	
Algorithm Settings	
ROUTING	
Static	
RIP	
SWITCHING	
VLAN Database	
INTERFACE	
GigabitEthernet0/0/0	
GigabitEthernet0/0/1	

GigabitEthernet0/0/0

Port Status					☑ On
Bandwidth	○ 1000 Mbps	⦿ 100 Mbps	○ 10 Mbps	☑ Auto
Duplex		○ Half Duplex	⦿ Full Duplex	☑ Auto
MAC Address	000B.BE87.B001				

IP Configuration
IPv4 Address	192.168.100.1
Subnet Mask	255.255.255.0

Tx Ring Limit	10

Equivalent IOS Commands

```
Router(vlan)#exit
APPLY completed.
Exiting....
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/1
Router(config-if)#
%SYS-5-CONFIG_I: Configured from console by console

Router(config-if)#exit
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#
```

☐ Top

Laptop-PT
Laptop0

Laptop-PT
Laptop1

29

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

Laptop2

Physical | Config | Desktop | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0

IP Configuration

○ DHCP   ● Static

IPv4 Address	192.168.200.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.200.1
DNS Server	0.0.0.0

IPv6 Configuration

○ Automatic   ● Static

IPv6 Address	/
Link Local Address	FE80::230:F2FF:FE47:5061
Default Gateway	
DNS Server	

802.1X

☐ Use 802.1X Security

Authentication	MD5
Username	
Password	

☐ Top

Laptop-PT
Laptop0

Laptop-PT
Laptop1

29

819IOX | 819HGW | 829 | 1240 | PT-Router | PT-Emp

ⓘ   Scenario 0

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

New   Delete