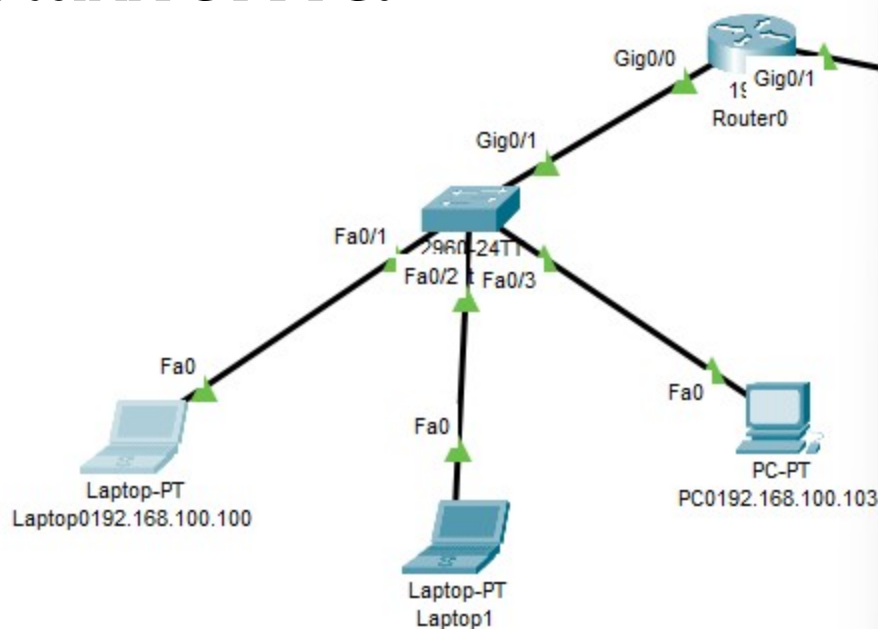




Logical Physical x: 461, y: 250

Mettiamo in comunicazione il
Laptop PT0 con il PC PT PC0



Laptop0192.168.100.100

Physical Config Desktop Programming Attributes

Command Prompt

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:

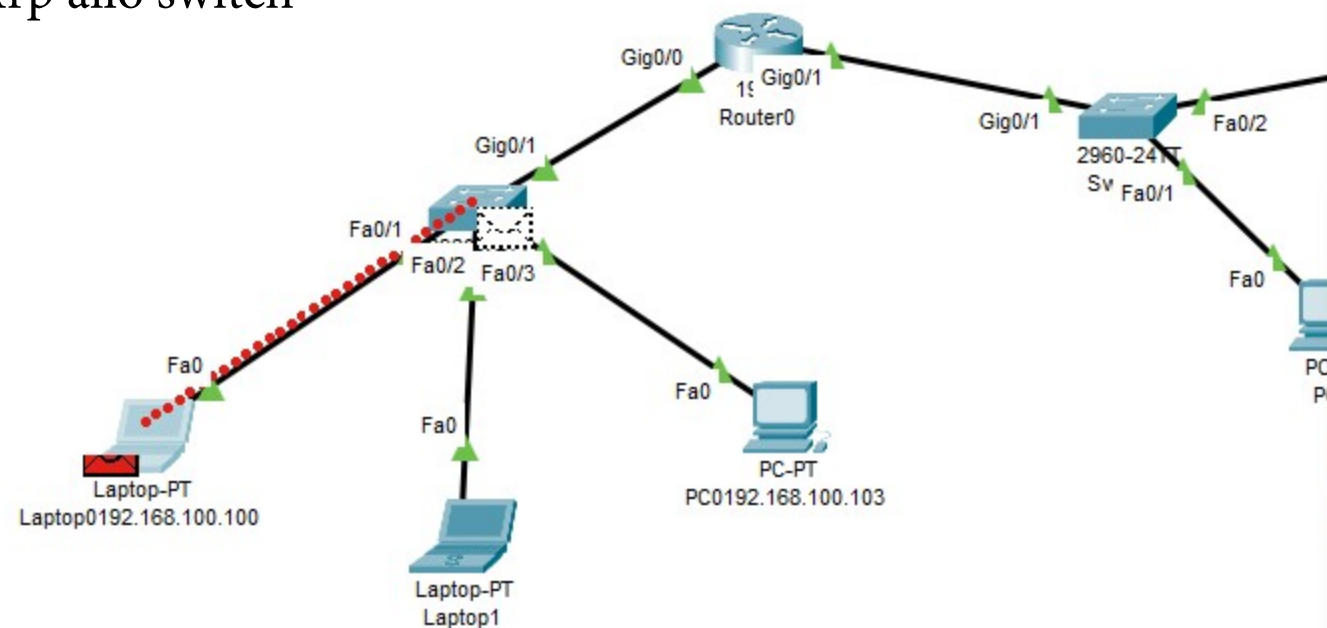
Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>



Logical Physical x: 792, y: 269

Il laptop PT0 invierà una richiesta Arp allo switch



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	Laptop0192.168.100.100
Visible	0.001	Laptop0192.168.100.100	Switch0
	0.002	Switch0	PC0192.168.100.103
	0.003	PC0192.168.100.103	Switch0
	0.004	Switch0	Laptop0192.168.100.100
	1.005	--	Laptop0192.168.100.100
	1.006	Laptop0192.168.100.100	Switch0

Reset Simulation

☒ Constant DelayCaptured to:
1.006 s

Play Controls



Event List Filters - Visible Events

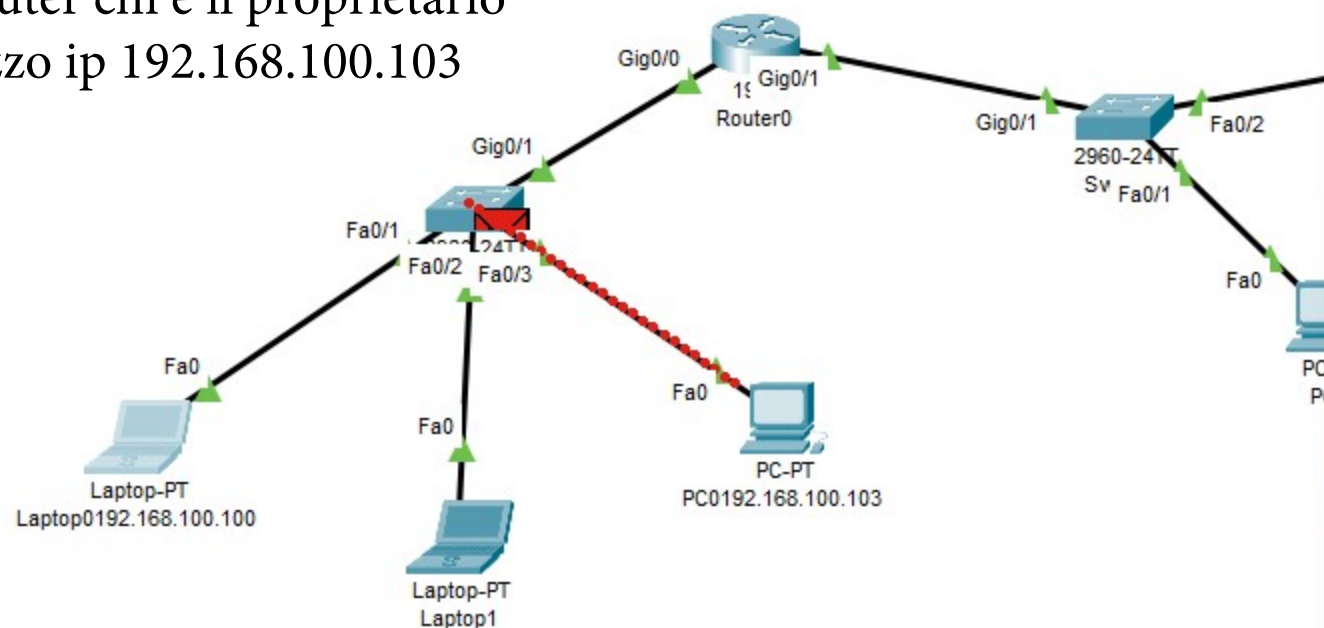
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH,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

Edit Filters

Show All/None

Logical Physical x: 796, y: 128

Lo switch a sua volta chiederà a gli altri computer chi è il proprietario dell'indirizzo ip 192.168.100.103



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	Laptop0192.168.100.100
	0.001	Laptop0192.168.100.100	Switch0
	0.002	Switch0	PC0192.168.100.103
Visible	0.003	PC0192.168.100.103	Switch0
	0.004	Switch0	Laptop0192.168.100.100
	1.005	--	Laptop0192.168.100.100
	1.006	Laptop0192.168.100.100	Switch0
	1.007	--	-----

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, PAoP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPvng, RTP, SCCP, SMTP, SNMP, SSH, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

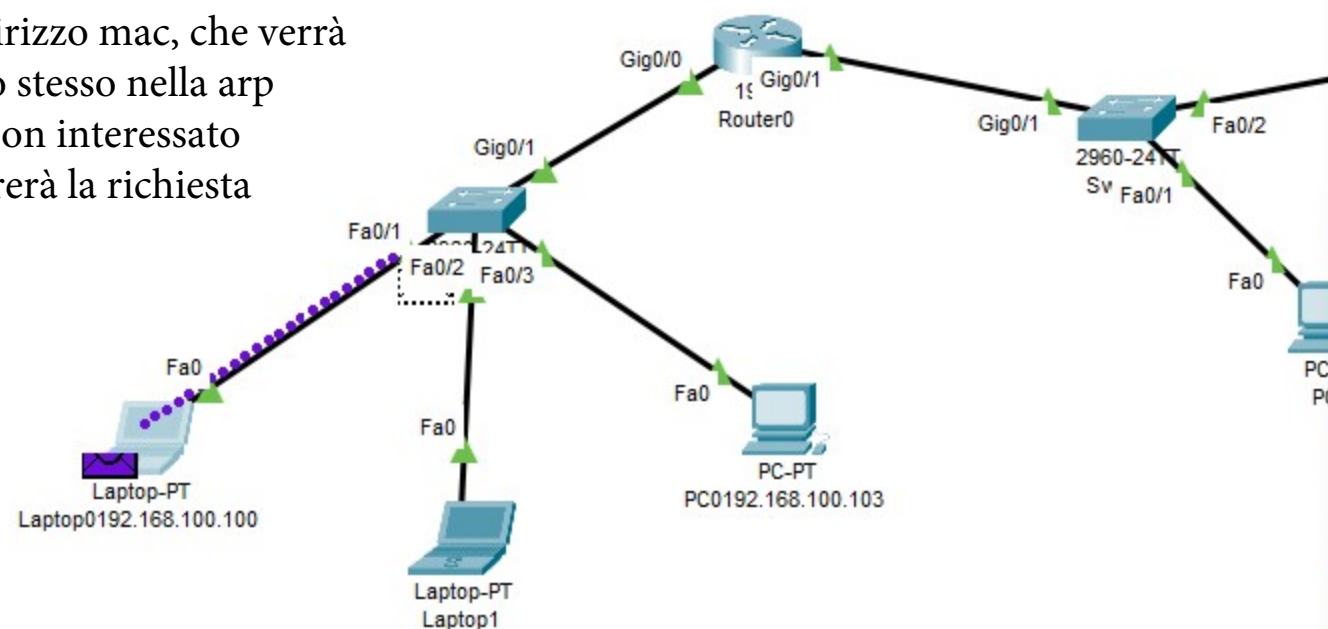
Edit Filters

[Show All/None](#)



Logical Physical x: 0, y: 49

Il pc proprietario dell'indirizzo ip risponderà allo switch con il proprio indirizzo mac, che verrà salvato dallo stesso nella arp table. il pc non interessato invece ignorerà la richiesta ricevuta.



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	1.005	--	Laptop0192.168.100.100
	1.006	Laptop0192.168.100.100	Switch0
	1.007	Switch0	PC0192.168.100.103
	1.008	PC0192.168.100.103	Switch0
	1.009	Switch0	Laptop0192.168.100.100
	2.010	--	Laptop0192.168.100.100
Visible	2.011	Laptop0192.168.100.100	Switch0

Reset Simulation

☒ Constant DelayCaptured to:
2.011 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, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

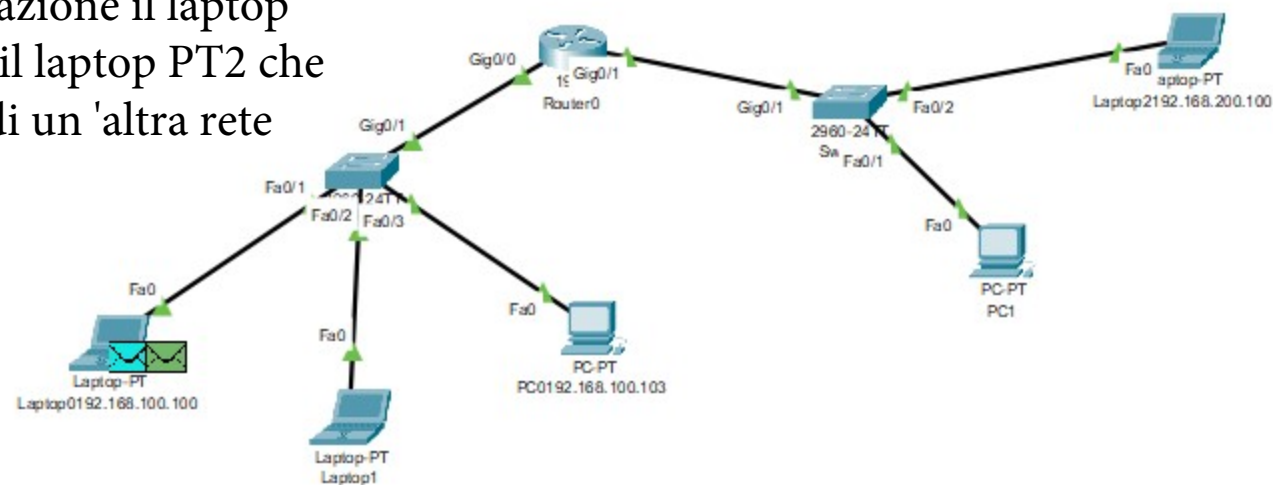
Edit Filters

Show All/None



Logical Physical x: 165, y: 0

Mettiamo in
comunicazione il laptop
PT0 con il laptop PT2 che
fa parte di un'altra rete



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
Visible	0.000	--	Laptop0192.168.100.100
Visible	0.000	--	Laptop0192.168.100.100

Reset Simulation

☒ Constant DelayCaptur
0

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, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

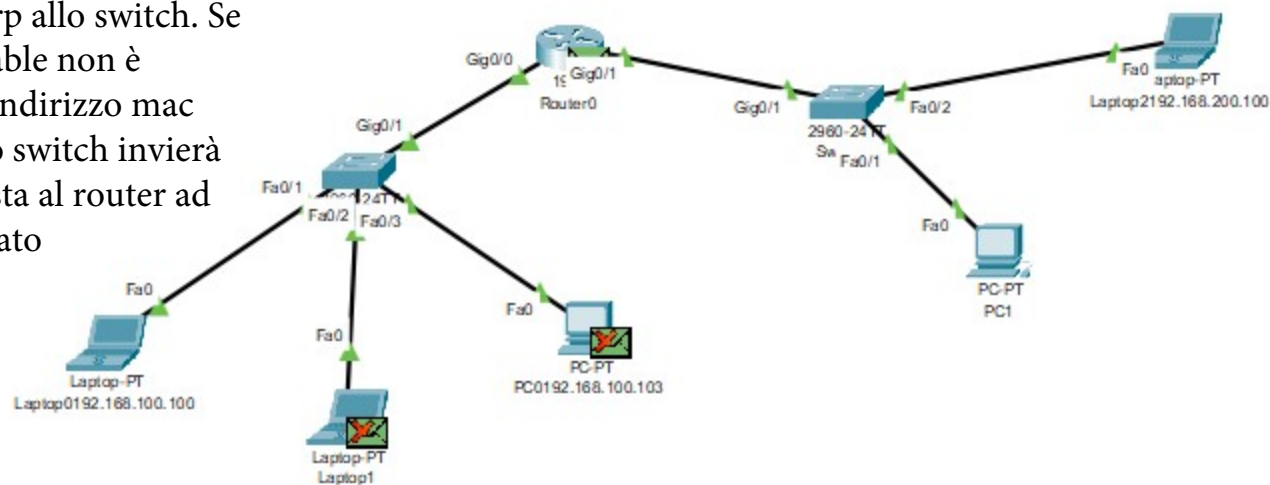
Edit Filters

Show All/None



Logical Physical x: 113, y: 35

Il laptop PT0 invierà una richiesta arp allo switch. Se nella arp table non è presente l'indirizzo mac richiesto lo switch invierà una richiesta al router ad esso collegato



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	Laptop0192.168.100.100
	0.000	--	Laptop0192.168.100.100
	0.001	Laptop0192.168.100.100	Switch0
Visible	0.002	Switch0	Laptop1
Visible	0.002	Switch0	PC0192.168.100.103
Visible	0.002	Switch0	Router0

Reset Simulation

☒ Constant DelayCaptur
0

Play Controls



Event List Filters - Visible Events

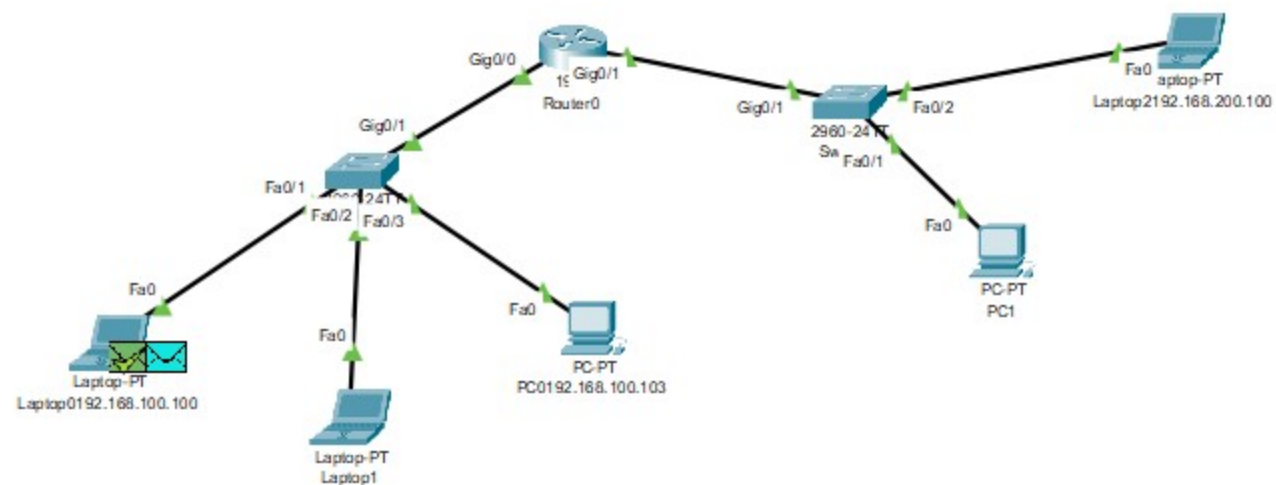
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH,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

Edit Filters

Show All/None



Logical Physical x: 258, y: 331



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.000	--	Laptop0192.168.100.100
	0.000	--	Laptop0192.168.100.100
	0.001	Laptop0192.168.100.100	Switch0
	0.002	Switch0	Laptop1
	0.002	Switch0	PC0192.168.100.103
	0.002	Switch0	Router0
	0.003	Router0	Switch0
Visible	0.004	Switch0	Laptop0192.168.100.100
Visible	0.004	--	Laptop0192.168.100.100

Reset Simulation

☒ Constant DelayCaptur
0

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, HSRPv2, 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, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

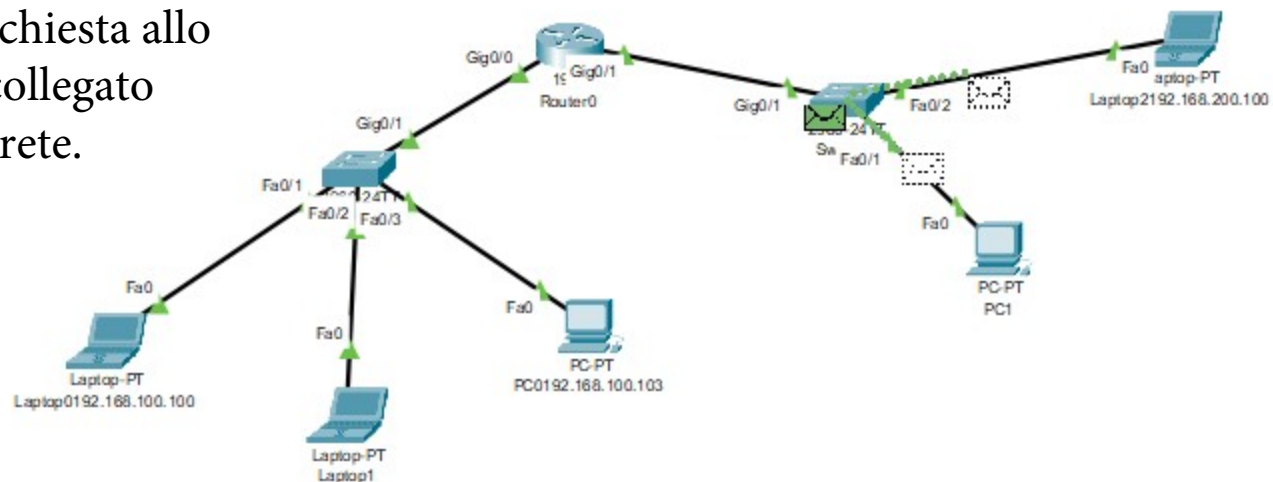
Edit Filters

Show All/None



Logical Physical x: 71, y: 59

Il router invierà la stessa richiesta allo switch collegato all'altra rete.



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.002	Switch0	Laptop1
	0.002	Switch0	PC0192.168.100.103
	0.002	Switch0	Router0
	0.003	Router0	Switch0
	0.004	Switch0	Laptop0192.168.100.100
	0.004	--	Laptop0192.168.100.100
	0.005	Laptop0192.168.100.100	Switch0
	0.006	Switch0	Router0
	0.006	--	Router0
	0.007	Router0	Switch1
Visible	0.008	Switch1	PC1
Visible	0.008	Switch1	Laptop2192.168.200.100

Reset Simulation

☒ Constant Delay

Captu

Play Controls



Event List Filters - Visible Events

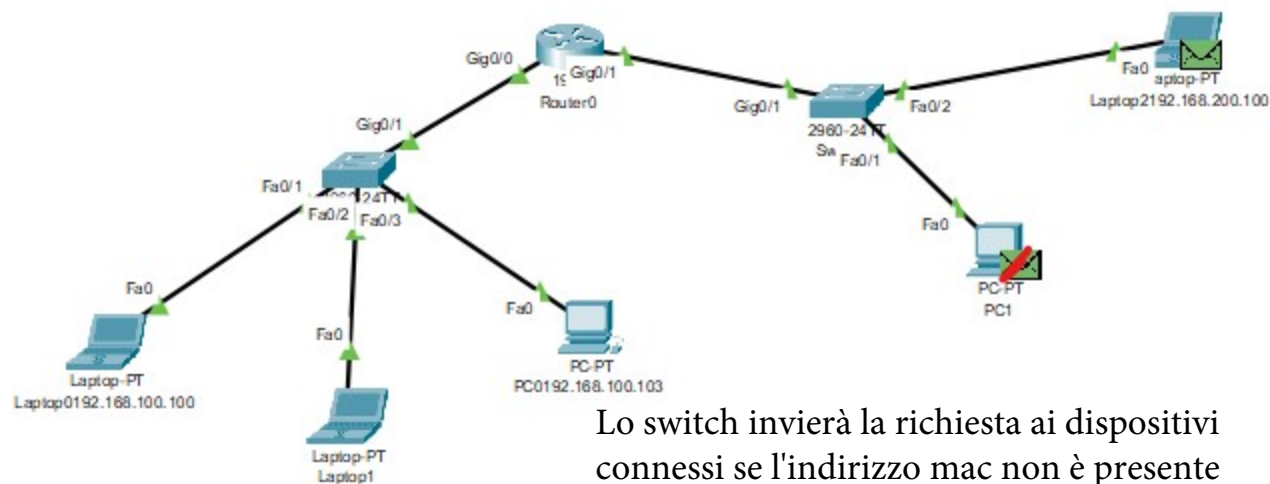
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, SYSLOG,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

Edit Filters

Show All/None



Logical Physical x: 459, y: 275



Lo switch invierà la richiesta ai dispositivi connessi se l'indirizzo mac non è presente nella arp table. Una volta verificato che l'indirizzo mac appartiene ad un dispositivo connesso lo comunicherà al router. Per poi passare allo switch che svelerà l'indirizzo mac richiesto al laptop PT0.

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.002	Switch0	Laptop1
	0.002	Switch0	PC0192.168.100.103
	0.002	Switch0	Router0
	0.003	Router0	Switch0
	0.004	Switch0	Laptop0192.168.100.100
	0.004	--	Laptop0192.168.100.100
	0.005	Laptop0192.168.100.100	Switch0
	0.006	Switch0	Router0
	0.006	--	Router0
	0.007	Router0	Switch1
Visible	0.008	Switch1	PC1
Visible	0.008	Switch1	Laptop2192.168.200.100

Reset Simulation

☒ Constant DelayCaptur
6

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, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

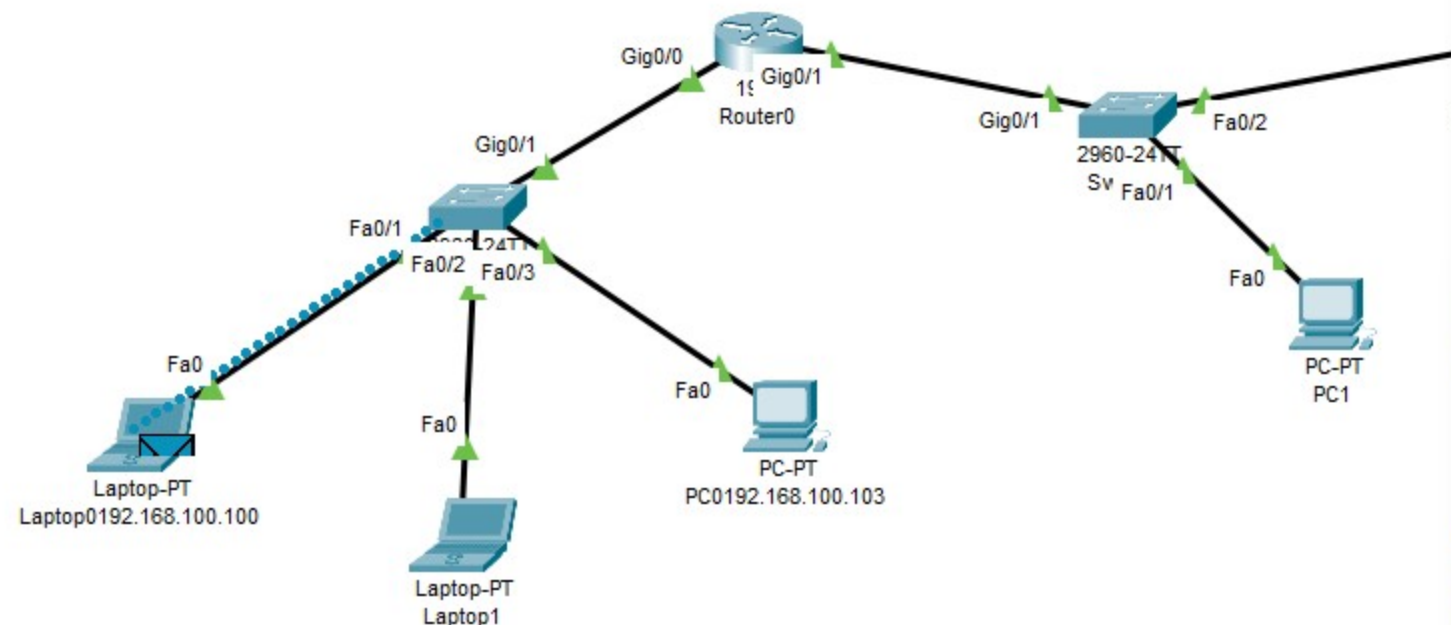
Edit Filters

Show All/None



Logical Physical x: 554, y: 115

Root 02:57:30



Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device
	0.002	Switch0	Router0
	0.003	Router0	Switch1
	0.004	Switch1	Laptop2192.168
	0.005	Laptop2192.168.200.100	Switch1
	0.006	Switch1	Router0
	0.007	Router0	Switch0
Visible	0.008	Switch0	Laptop0192.168

Reset Simulation

☒ Constant DelayCaptured to:
0.008 s

Play Controls



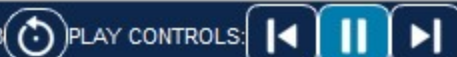
Event List Filters - Visible Events

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, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters

Show All/None

Time: 00:05:10.453



Event List Realtime Simulation

```
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<1ms TTL=127
```

```
Reply from 192.168.200.100: bytes=32 time=10ms TTL=127
```

```
Reply from 192.168.200.100: bytes=32 time=10ms TTL=127
```

```
Reply from 192.168.200.100: bytes=32 time=12ms 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 = 12ms, Average = 8ms
```

```
C:\>
```