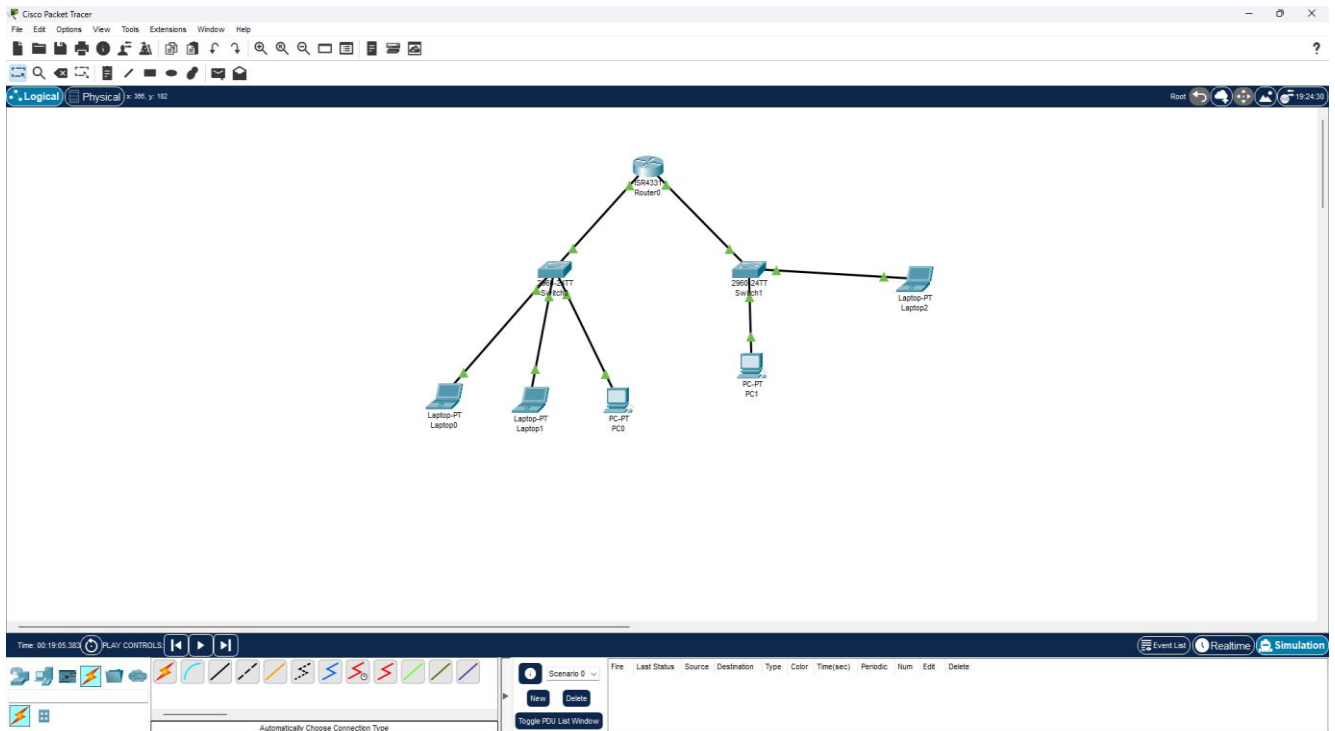


## Esercizio Pratica W2 – D2 Gallo Cosimo Pio

### Esercizio 1.

Mettere in comunicazione il laptop-PT0 con IP 192.168.100.100 con il PC-PT-PC0 con IP 192.168.100.103



**Laptop0 Configuration**

Physical Config Desktop Programming Attributes

IP Configuration

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::290:21FF:FE94:D11A

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

**PC0 Configuration**

Physical Config Desktop Programming Attributes

FastEthernet0

Port Status: ☒ On

Bandwidth: 100 Mbps 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 00D0.D319.49A5

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.100.103

Subnet Mask: 255.255.255.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:D3FF:FE19:49A5

☐ Top

Sul laptop 0 effettuare il ping verso pc0: ping 192.168.100.103

```
C:\>ping 192.168.100.103

Pinging 192.168.100.103 with 32 bytes of data:

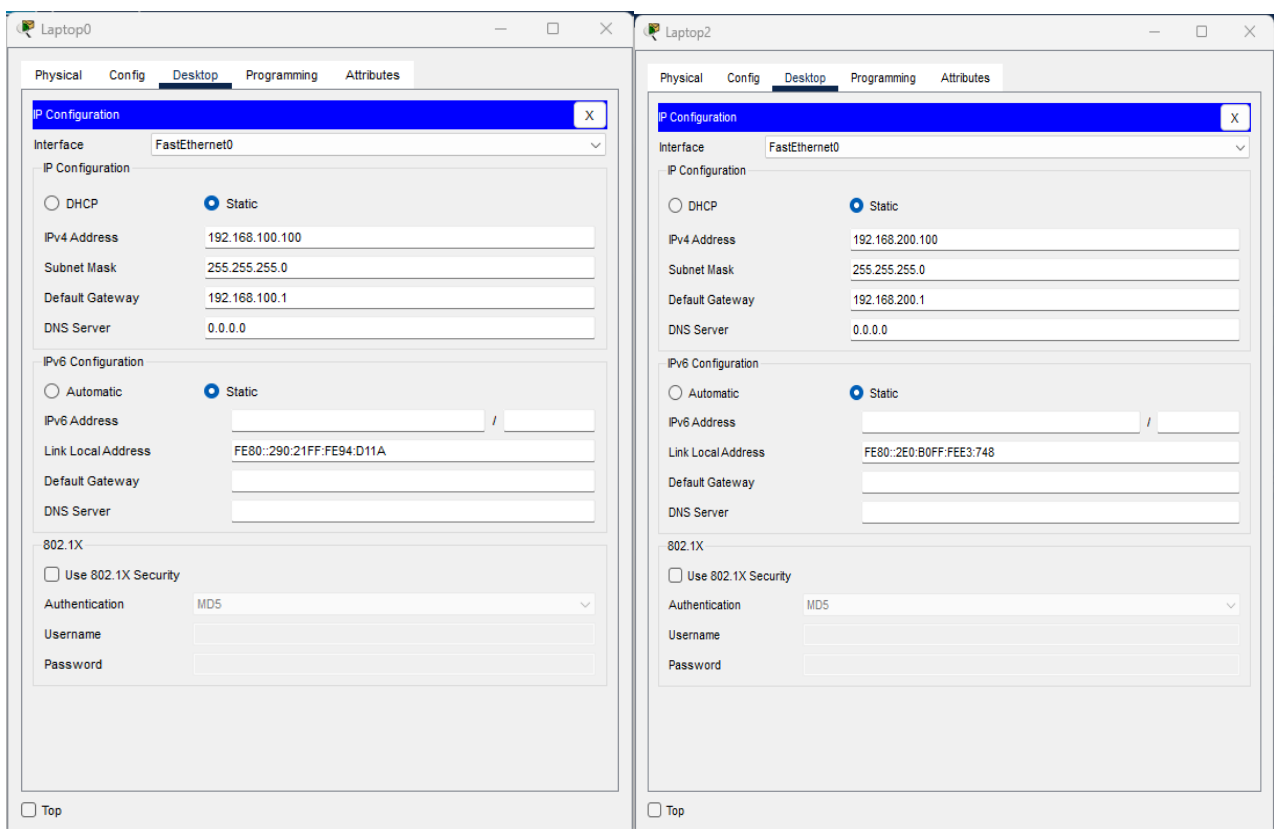
Reply from 192.168.100.103: bytes=32 time=7ms TTL=128
Reply from 192.168.100.103: bytes=32 time=4ms TTL=128
Reply from 192.168.100.103: bytes=32 time=4ms TTL=128
Reply from 192.168.100.103: bytes=32 time=4ms TTL=128

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 = 7ms, Average = 4ms
```

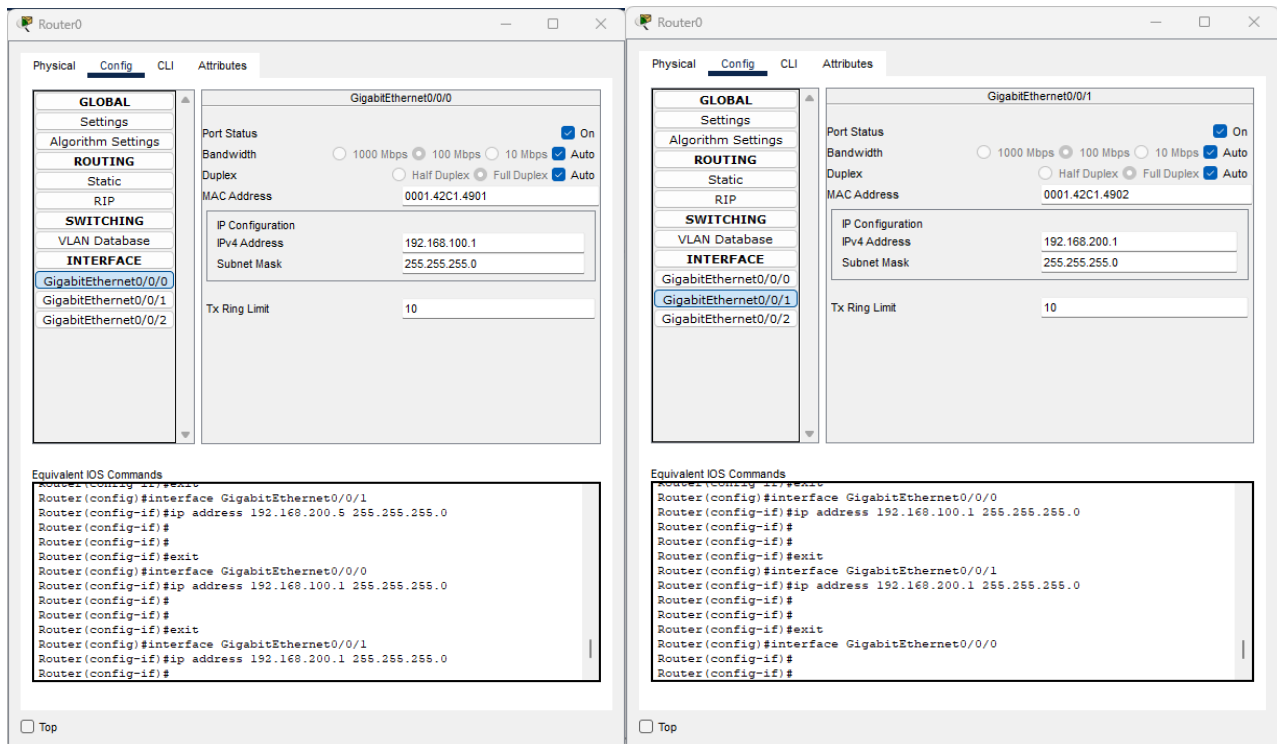
Esercizio 2.

Mettere in comunicazione il laptop-PT0 con IP 192.168.100.100 con il laptop-PT2 con IP 192.168.200.100

Si utilizza il default gateway per identificarti con il router (che deve ovviamente combaciare con l'IPv4 del router)



Configurazione del router: l'ethernet 0 quello che è collegato prima allo switch0 e poi al laptop0, l'IPv4 l'ho settato come 192.168.100.1; mentre sull'ethernet 1 ovvero quello che è collegato prima allo switch1 e poi al laptop2, l'ipv4 l'ho settato come 192.168.200.1



Sul laptop 0 effettuare il ping verso laptop 2: ping 192.168.200.100

```
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=12ms TTL=127
Reply from 192.168.200.100: bytes=32 time=8ms TTL=127
Reply from 192.168.200.100: bytes=32 time=8ms TTL=127
Reply from 192.168.200.100: bytes=32 time=8ms 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 = 8ms, Maximum = 12ms, Average = 9ms
```

### Esercizio 3.

Mostrare qualitativamente (non inserite i valori) come cambiano «source MAC e destination MAC» e «source IP & destination IP» quando un pacchetto viene inviato dal Laptop-PT-Laptop0 verso Laptop-PT-Laptop2

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	Laptop0	ICMP
	0.001	Laptop0	Switch0	ICMP
	0.002	Switch0	Router0	ICMP
	0.003	Router0	Switch1	ICMP
	0.004	Switch1	Laptop2	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.004 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, PAP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPv2, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Cisco Packet Tracer

Time: 00:19:55.502 PLAY CONTROLS

Scenario 0

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

Toggle VIDS Last Windows

Automatically Choose Connection Type

1. Source Mac laptop0 (0090.2194.D11A) -- At Device Mac switch0
2. Source Mac switch0 -- At Device Router0 (0001.42C1.4901)
3. Source Mac Router0 (0001.42C1.4902) – At Device Switch1
4. Source Mac Switch1 – Destination Mac (00E0.B0E3.0748)

