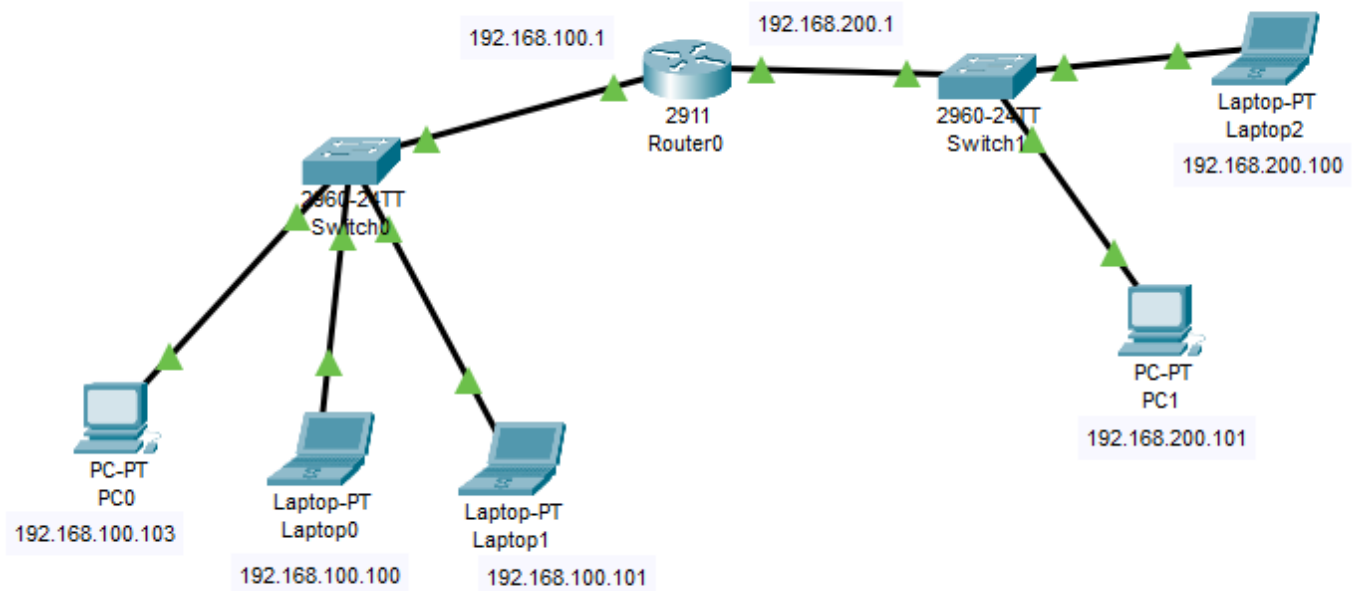
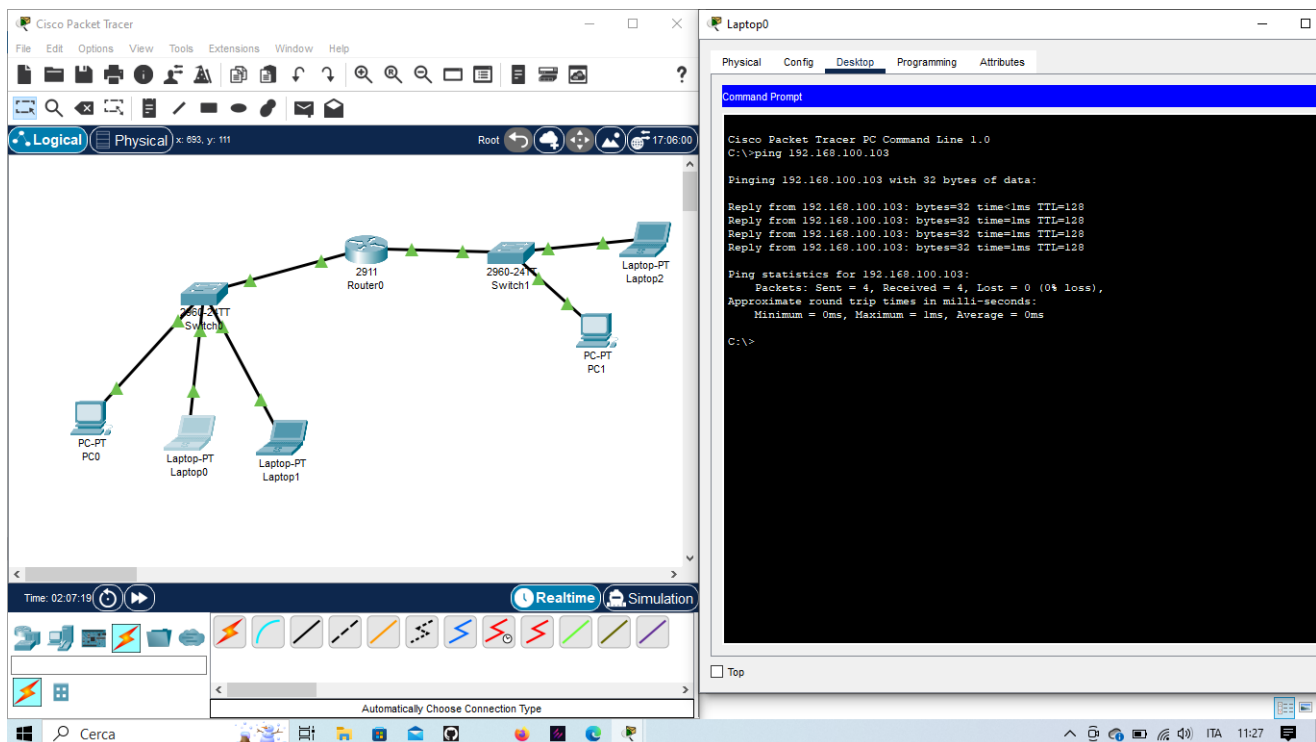


## Configurazione reti con CISCO PACKET TRACER



Dopo aver messo in comunicazione il laptop0 con il Pc0 nella stessa rete LAN1, verranno messi in comunicazione il laptop0 (LAN1) con il laptop2 (LAN2).



**Configurazione indirizzo IP + Gateway LAPTOP0**

Laptop0

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

**FastEthernet0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0001.633B.A939

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 192.168.100.100

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::201:63FF:FE3B:A939

Laptop0

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

**Global Settings**

Display Name Laptop0

Interfaces FastEthernet0

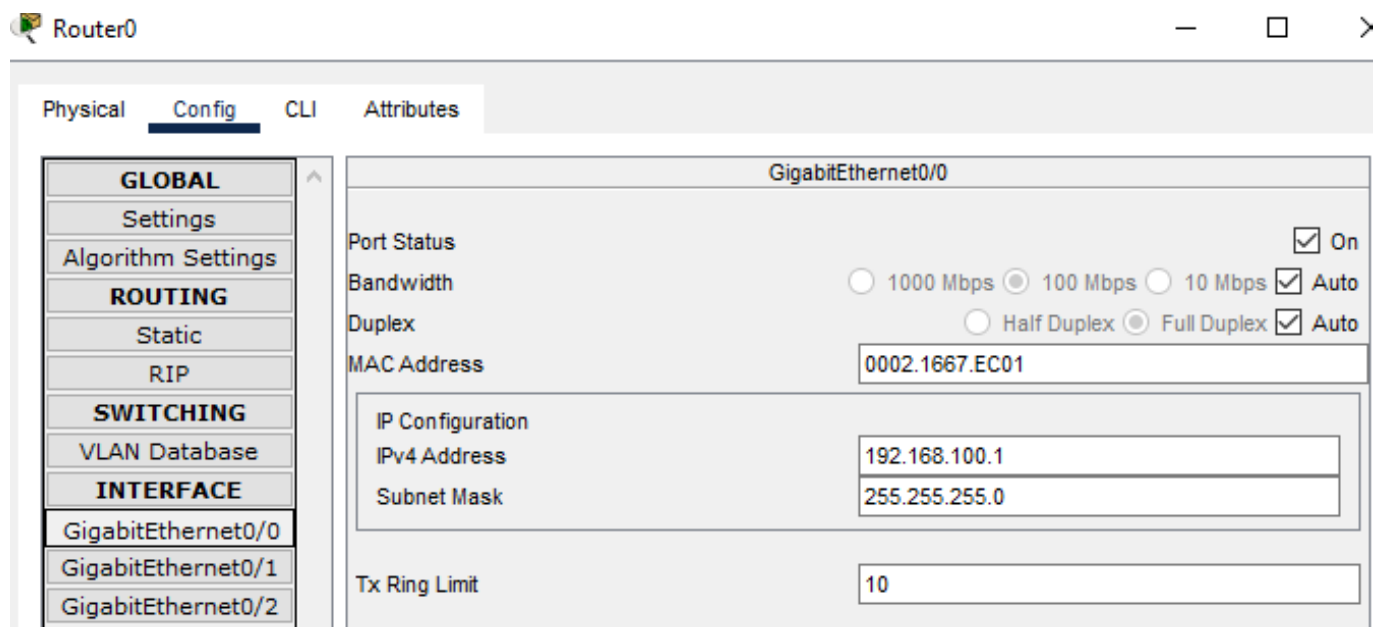
Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 192.168.100.1

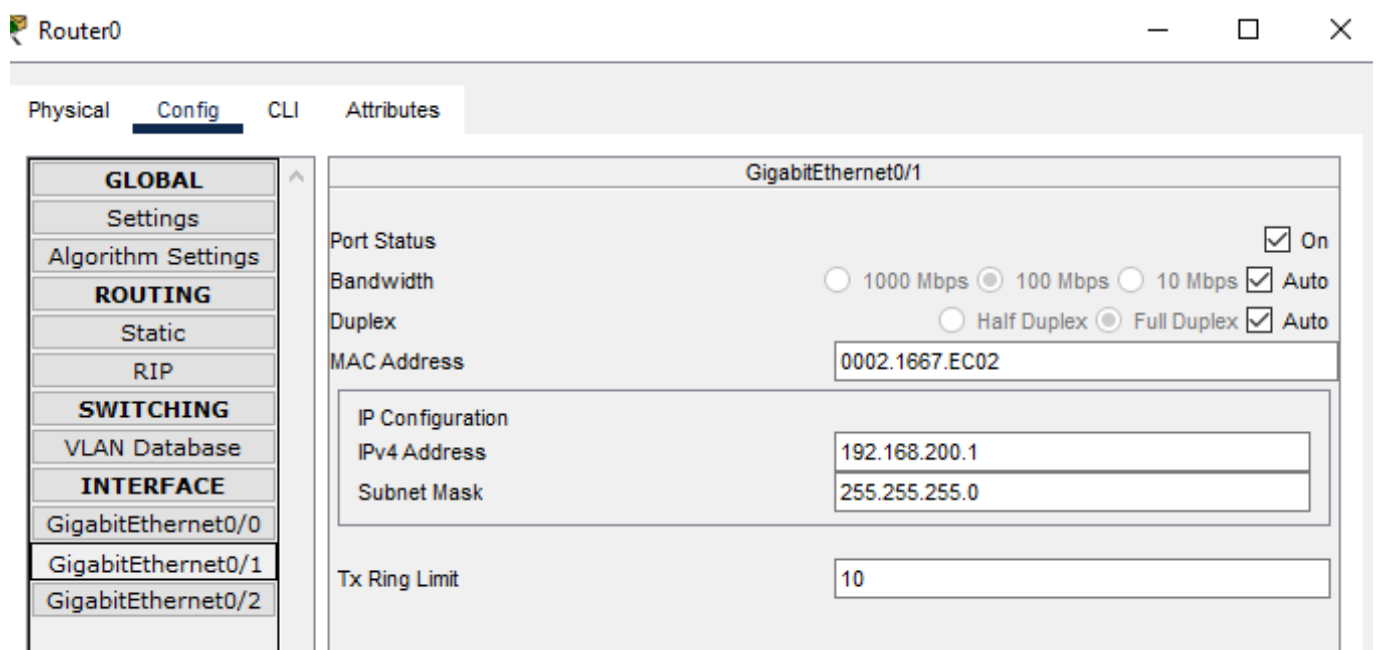
**Configurazione indirizzo IP della rete LAN1 GigBitEth0/0 del Router** per permettere al lapto 0 di comunicare con il laptop2, cioè tradurre i dati della rete LAN1 in quelli della rete LAN2



The screenshot shows the configuration window for the GigabitEthernet0/0 interface on Router0. The 'Config' tab is selected. The left sidebar shows a tree view with 'INTERFACE' expanded and 'GigabitEthernet0/0' selected. The main area displays the following settings:

- Port Status:** ☒ On
- Bandwidth:** ☐ 1000 Mbps ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex:** ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address:** 0002.1667.EC01
- IP Configuration:**
  - IPv4 Address:** 192.168.100.1
  - Subnet Mask:** 255.255.255.0
- Tx Ring Limit:** 10

**Configurazione indirizzo IP della rete LAN2 GigBitEth0/1 del Router** per permettere al alptop2 di comunicare con il laptop0 cioè tradurre i dati della rete LAN2 in quelli della LAN1



The screenshot shows the configuration window for the GigabitEthernet0/1 interface on Router0. The 'Config' tab is selected. The left sidebar shows a tree view with 'INTERFACE' expanded and 'GigabitEthernet0/1' selected. The main area displays the following settings:

- Port Status:** ☒ On
- Bandwidth:** ☐ 1000 Mbps ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex:** ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address:** 0002.1667.EC02
- IP Configuration:**
  - IPv4 Address:** 192.168.200.1
  - Subnet Mask:** 255.255.255.0
- Tx Ring Limit:** 10

**Configurazione LAPTOP2 indirizzp IP + Gateway**

Laptop2

Physical **Config** Desktop Programming Attributes

**GLOBAL**

Settings

Algorithm Settings

**INTERFACE**

FastEthernet0

Bluetooth

**FastEthernet0**

Port Status ☒ On

Bandwidth ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0006.2A13.24A0

IP Configuration

☐ DHCP

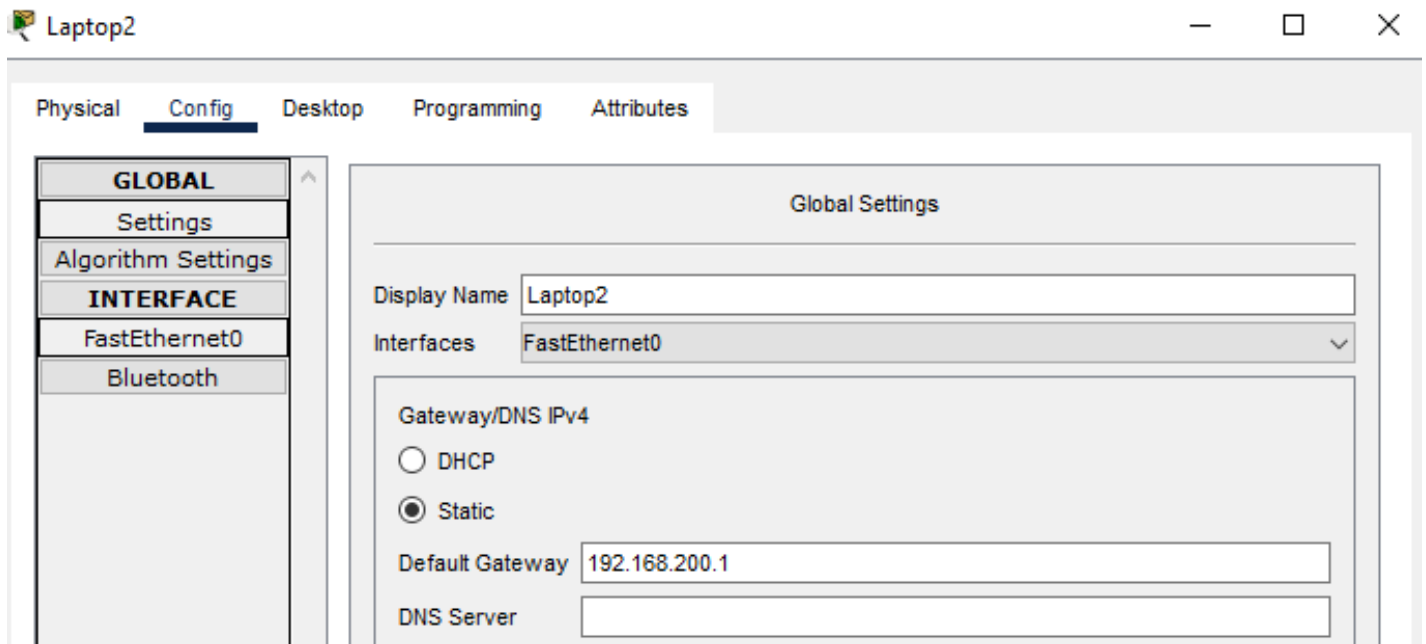
☒ Static

IPv4 Address 192.168.200.100

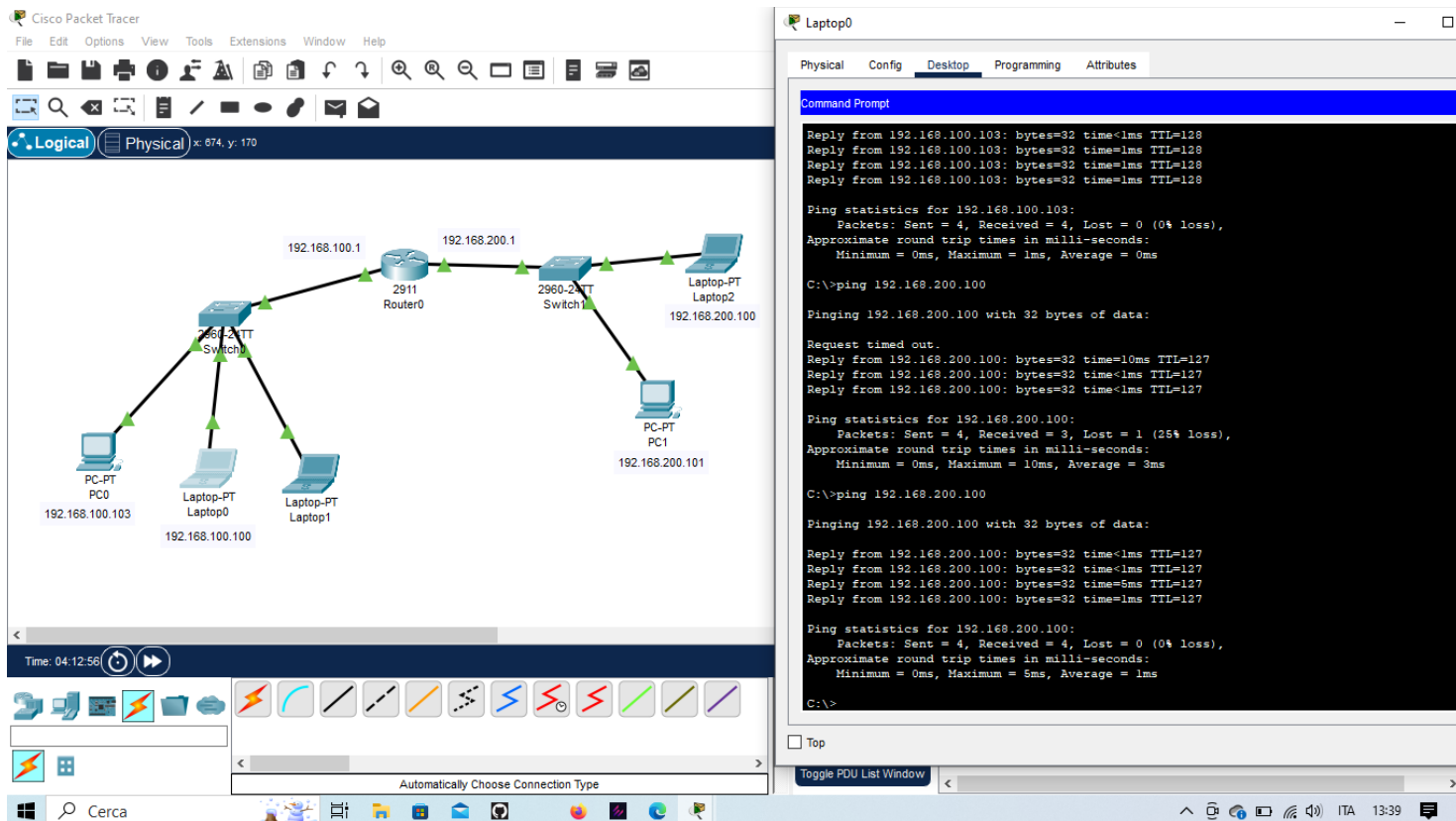
Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic



Ora metto in comunicazione tramite il PING, il laptop0 della LAN1 con il laptop2 della LAN2



Quando un pacchetto attraversa il Router tra reti locali LAN diverse, gli **Indirizzi MAC vengono modificati** man mano che il pacchetto attraversa le diverse reti, mentre gli **indirizzi IP non si modificano**, ma rimangono quelli assegnati nelle reti di origine e destinazione.