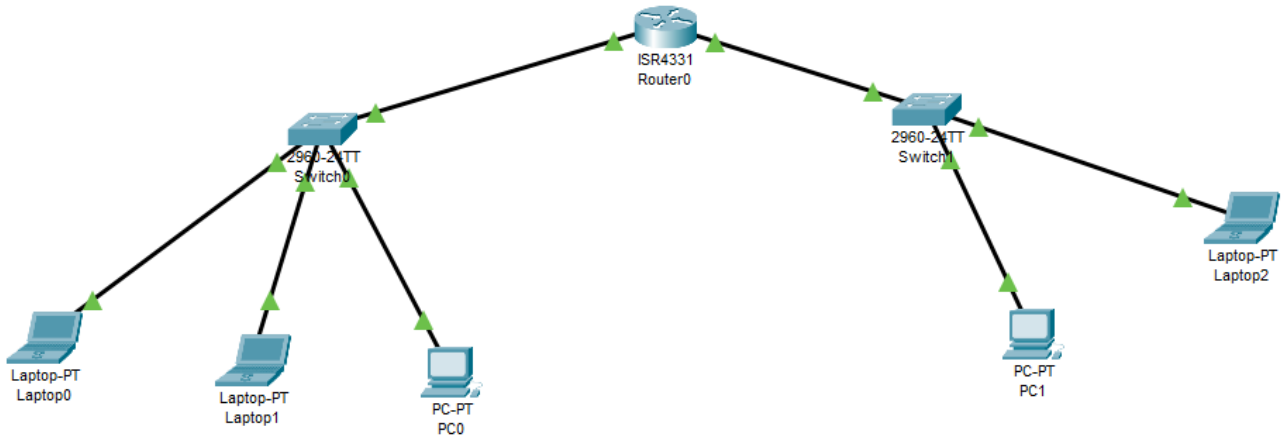
Floriana Feminò

25/10/2022

COMPOSIZIONE ED ANALISI DI UNA RETE DI CALCOLATORI



Software utilizzato: Packet Tracer

Hardware:

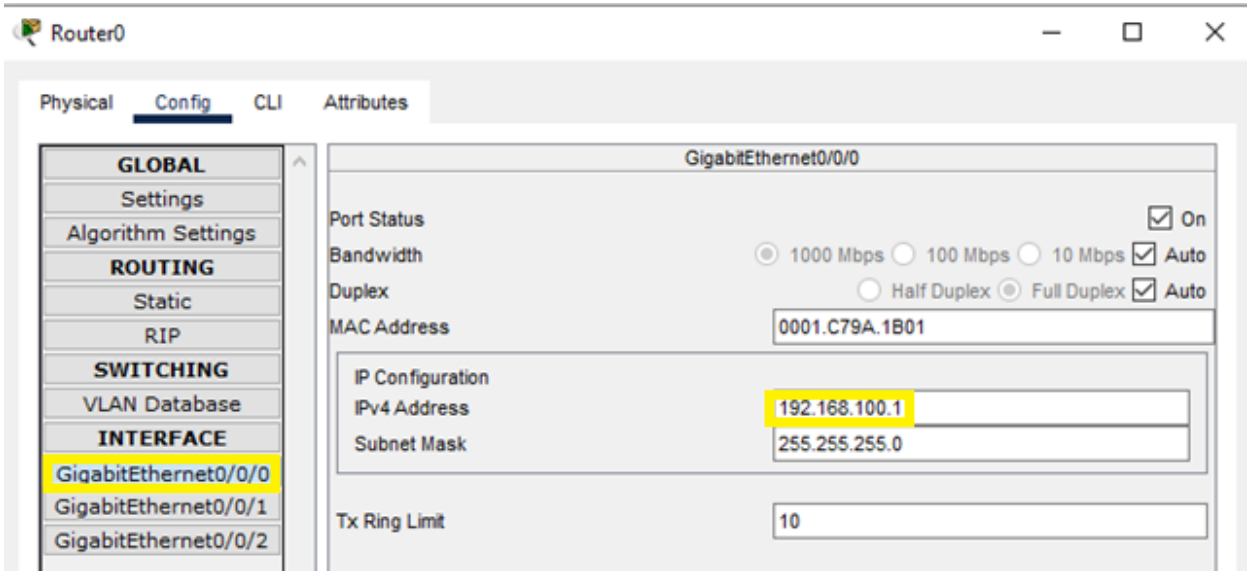
- 1 router ISR4331
- 2 switch 2960-24TT
- 3 PC laptop
- 2 PC desktop
- Cavi ethernet di collegamento

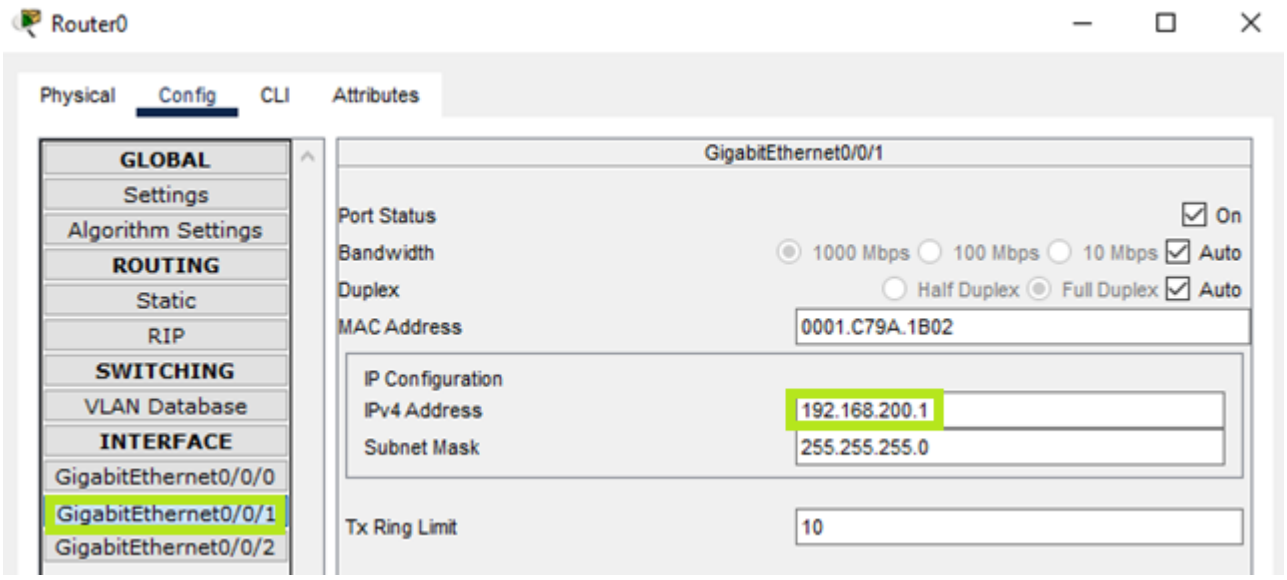
CONFIGURAZIONE – Assegnazione indirizzi IP statici

Laptop0 → 192.168.100.100 – default gateway 192.168.100.1

PC0 → 192.168.100.103 – default gateway 192.168.100.1

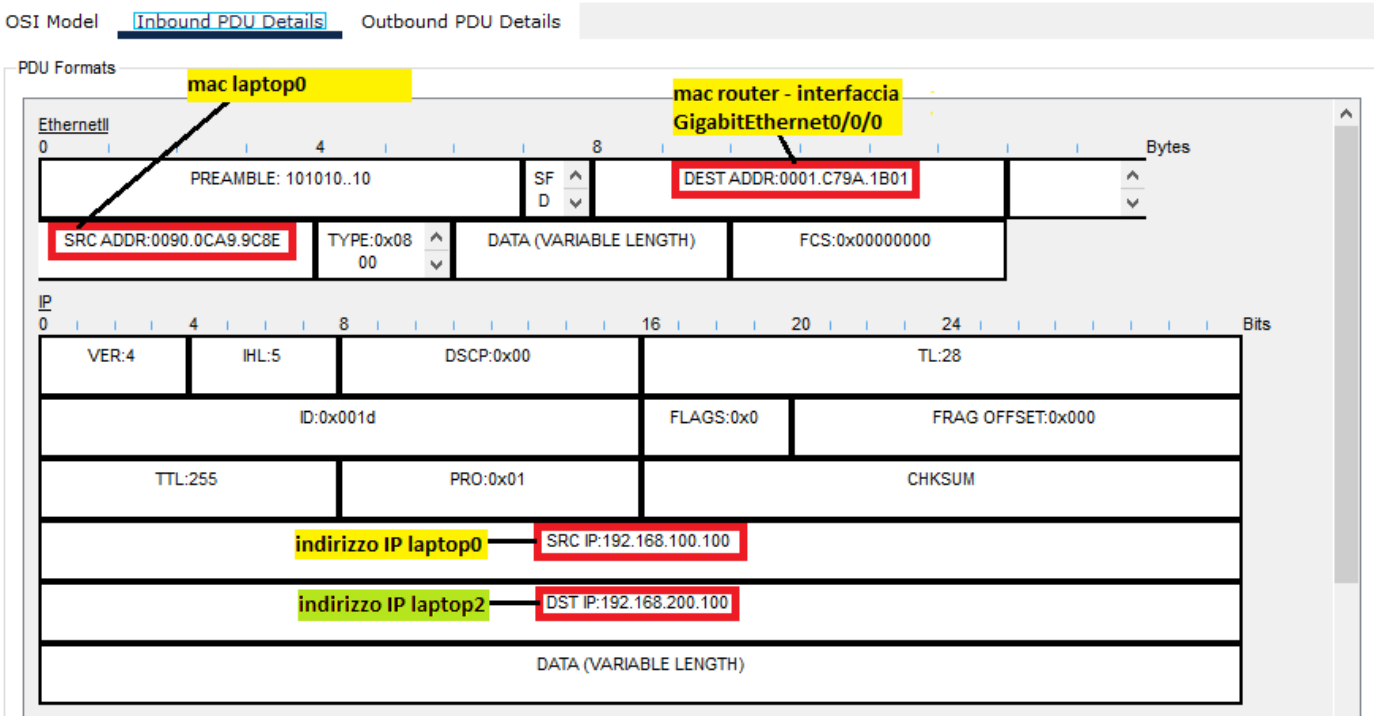
Laptop2 → 192.168.200.100 – default gateway 192.168.200.1



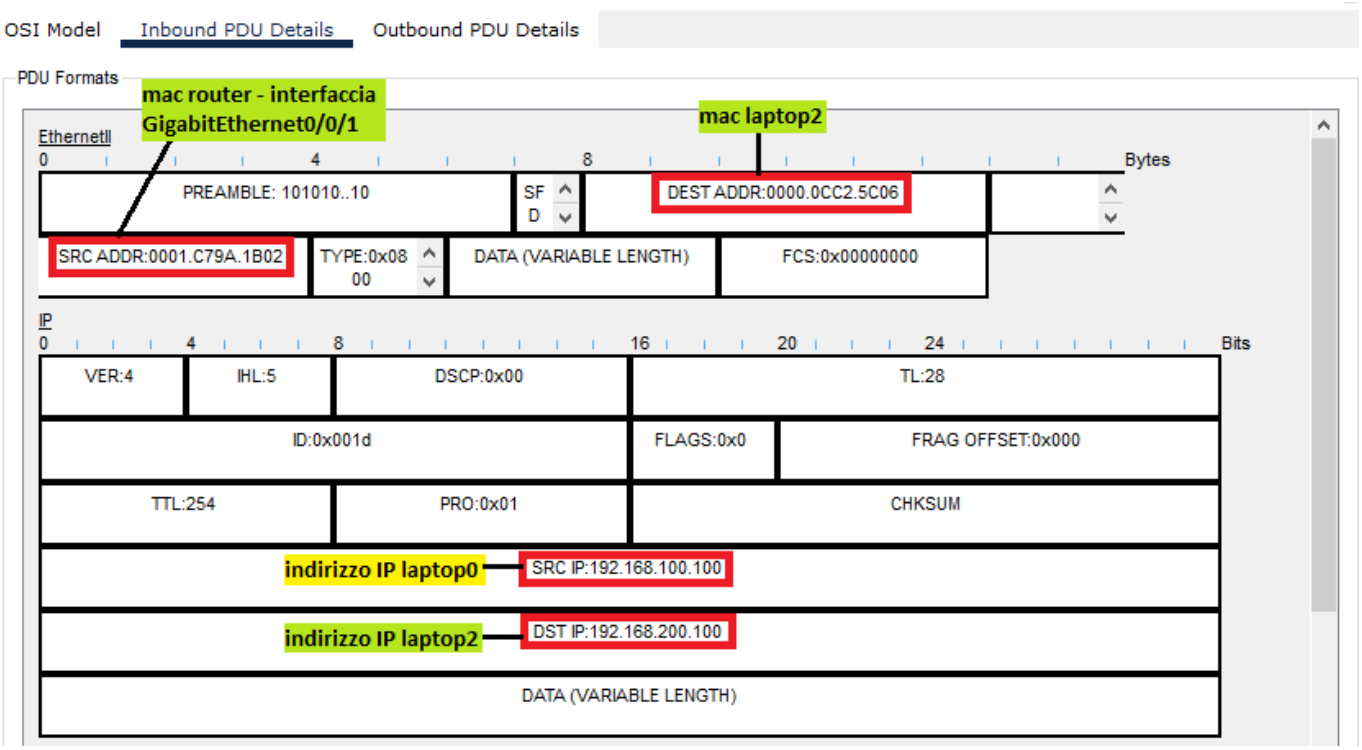


TEST – Avvio simulazione

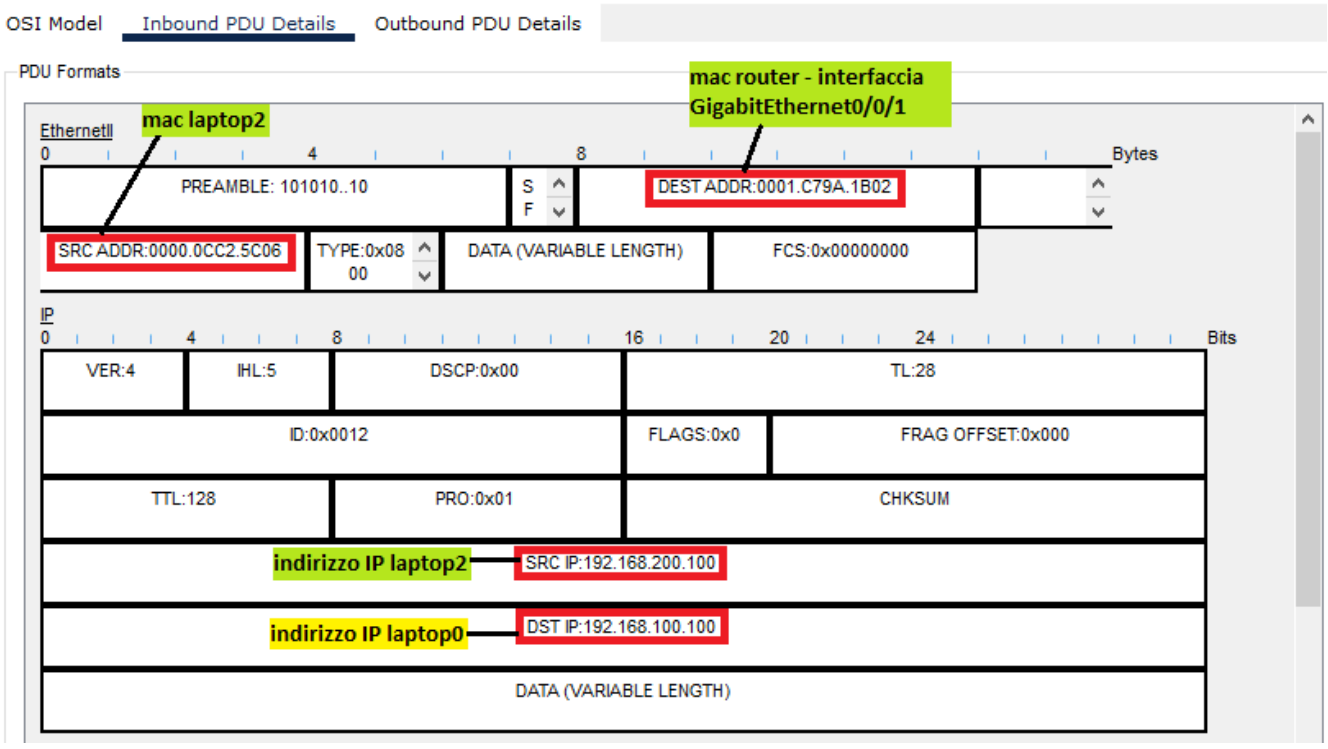
1. Laptop0 → switch0 → router0



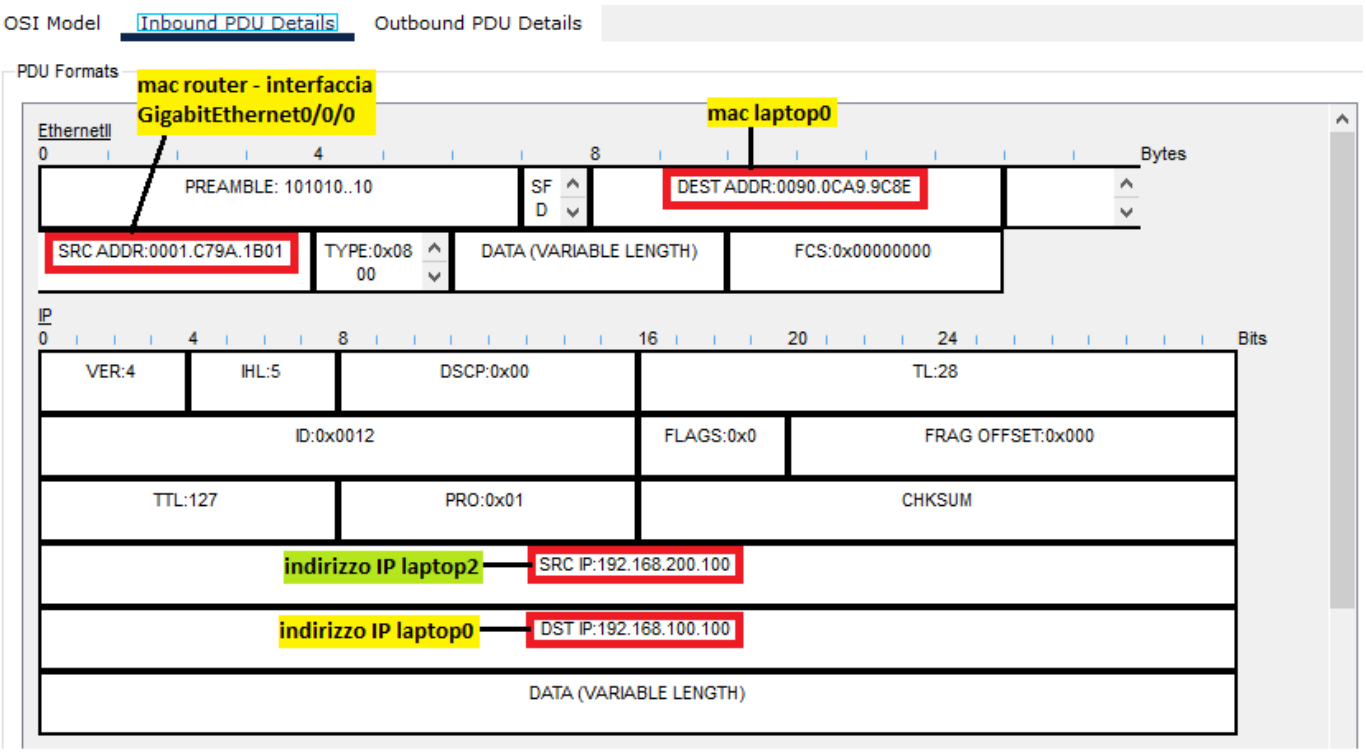
2. Router0 → switch1 → laptop2



3. Laptop2 → switch1 → router0



4. Router0 → switch0 → laptop0



VERIFICA RAGGIUNGIBILITA' DISPOSITIVI

Dati ping da laptop0 a PC0

```
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=17ms 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=12ms 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 = 17ms, Average = 7ms
```

Dati ping da laptop0 a laptop2

```
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<1ms TTL=127
Reply from 192.168.200.100: bytes=32 time<1ms TTL=127
Reply from 192.168.200.100: bytes=32 time<1ms 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
```