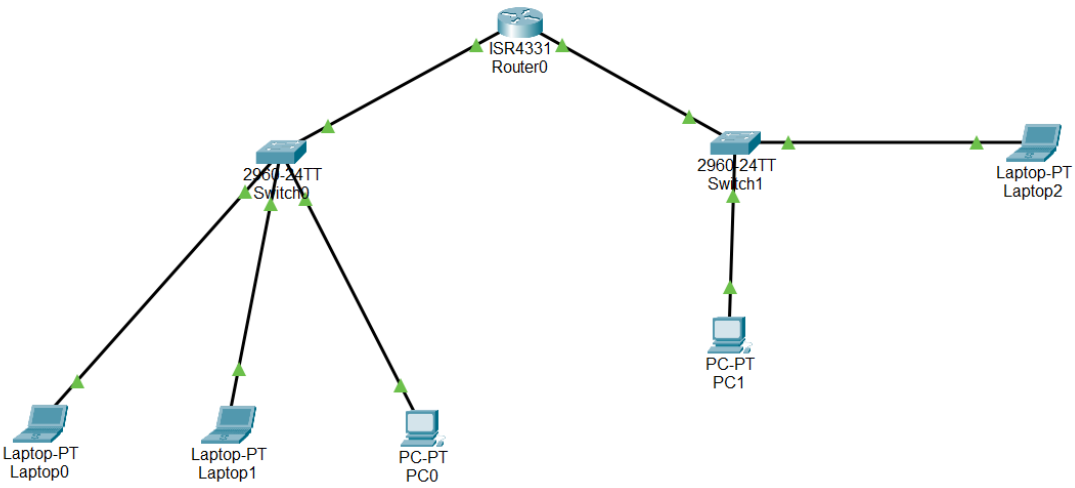
ESERCITAZIONE W2D1 – Pratica (2)

Su Packet Tracer è stata configurata la seguente architettura target:



Come da traccia sono state eseguite le configurazioni di:

1. Laptop 0: IP address 192.168.100.100, default gateway 192.168.100.1;
2. PC 0: 192.168.100.103, default gateway 192.168.100.1;
3. Laptop 2: 192.168.200.100, default gateway 192.168.200.1;

La default gateway di ogni rete coincide con l'IP address stabilito per ciascuna interfaccia configurata nel router.

È stata verificata la corretta comunicazione reciproca tra Laptop 0 e PC 0:

```
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
```

```
Pinging 192.168.100.100 with 32 bytes of data:

Reply from 192.168.100.100: bytes=32 time=12ms TTL=128
Reply from 192.168.100.100: bytes=32 time<1ms TTL=128
Reply from 192.168.100.100: bytes=32 time<1ms TTL=128
Reply from 192.168.100.100: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.100.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

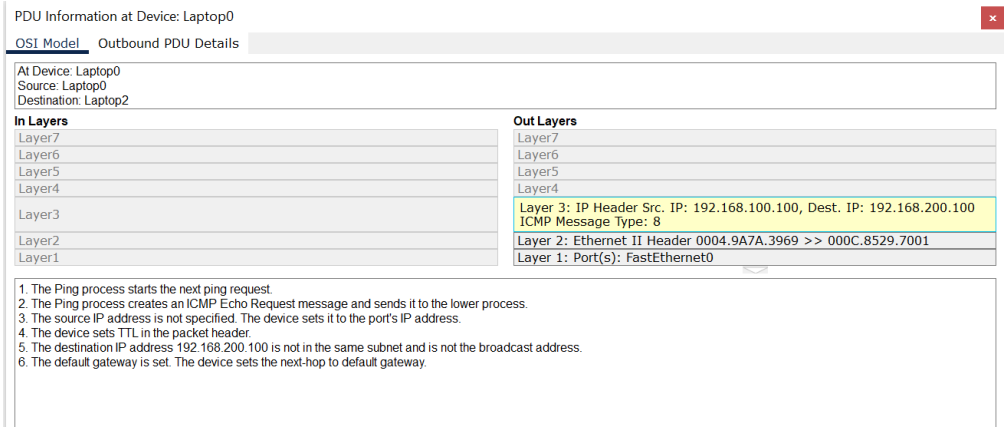
È stata verificata la corretta comunicazione reciproca tra Laptop 0 e Laptop2:

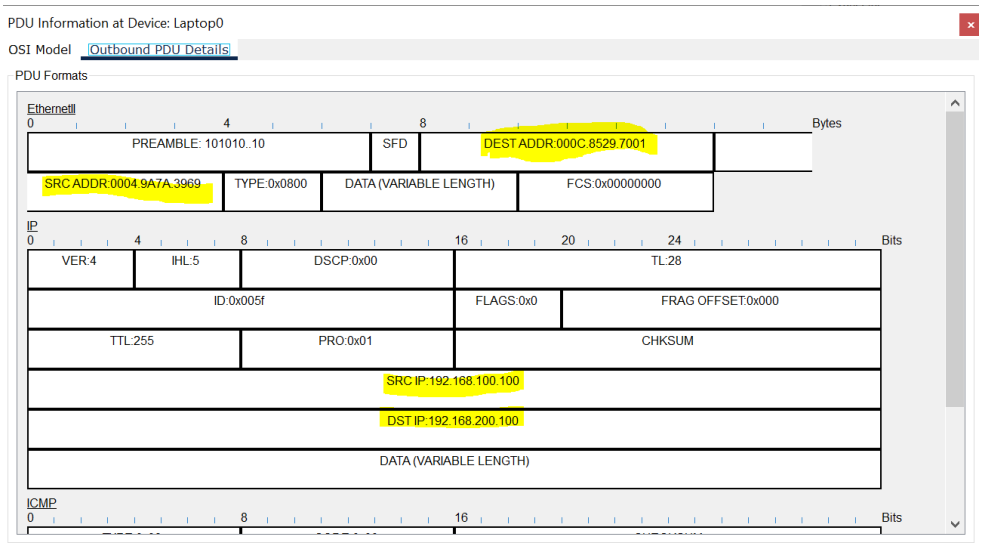
```
Pinging 192.168.200.100 with 32 bytes of data:

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
```

```
Pinging 192.168.100.100 with 32 bytes of data:

Reply from 192.168.100.100: bytes=32 time<1ms TTL=127
Reply from 192.168.100.100: bytes=32 time<1ms TTL=127
Reply from 192.168.100.100: bytes=32 time<1ms TTL=127
Reply from 192.168.100.100: bytes=32 time=7ms TTL=127

Ping statistics for 192.168.100.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

Si mostra qualitivamente il cambio di IP address tra source e destination in base alla direzione di invio di un pacchetto.

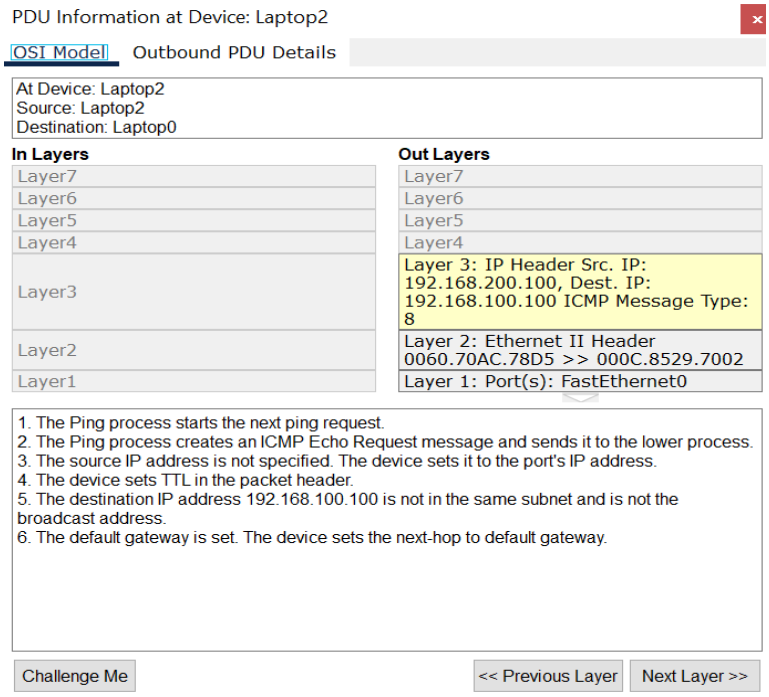
Invio di pacchetto da Laptop 0 a Laptop 2:





Il Source IP è quello del Laptop 0 mentre il Destination IP è quello del ricevente Laptop 2. Il Source MAC Address è quello del Laptop 0, il Destination MAC Address è quello assegnato alla prima interfaccia del Router 0.

Invio di pacchetto da Laptop 2 a Laptop 0:



Il Source IP è quello del Laptop 2 mentre il Destination IP è quello del ricevente Laptop 0. Il Source MAC Address è quello del Laptop 2, il Destination MAC Address è quello assegnato alla seconda interfaccia del Router 0.