





The screenshot shows a Windows desktop window titled 'Laptop0' with tabs for Physical, Config, Desktop, Programming, and Attributes. The 'Desktop' tab is active, displaying a Command Prompt window. The Command Prompt shows the results of several ping commands. First, four replies from 192.168.200.100 are shown, each with 32 bytes, time <1ms, and TTL=127. This is followed by ping statistics for 192.168.200.100: 4 packets sent, 4 received, 0% loss, and 0ms round trip times. Then, a ping command is entered for 192.168.100.103. Four replies from 192.168.100.103 are shown, each with 32 bytes, time <1ms, and TTL=128. Ping statistics for 192.168.100.103 show 4 packets sent, 4 received, 0% loss, and 0ms round trip times. Finally, a ping command is entered for 192.168.200.100. Four replies from 192.168.200.100 are shown, with times of <1ms, <1ms, <1ms, and 7ms, all with 32 bytes and TTL=127. Ping statistics for 192.168.200.100 show 4 packets sent, 4 received, 0% loss, and an average round trip time of 2ms. The Command Prompt window has a 'Top' button at the bottom left.

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Command Prompt
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

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:\>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=7ms 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 = 7ms, Average = 2ms

C:\>
```

☐ Top

Come possibile vedere in figura è stata messa in comunicazione una rete A (a sinistra) con una rete B (a destra) attraverso un router che grazie alle schede di rete per le porte gigabit che possiede riesce a mettere in comunicazione due reti diverse. Come richiesto è stato fatto pingare il laptop – pt0 con ip 192.168.100.100 con il pc-pt-pc0 con indirizzo ip 192.168.100.103 presenti entrambi ovviamente nella stessa rete (A). Successivamente ho fatto pingare come richiesto il laptop pt0 con ip 192.168.100.100 (rete A) con il laptop pt2 con ip 192.168.200.100 (rete B). In questo secondo caso l'informazione è passata inizialmente internamente alla rete A fino alla porta d'ingresso del router gigabit 0 configurata per poter "parlare" in quella rete, successivamente il router ha trasmesso l'informazione alla porta gigabit 1 predisposta per "parlare" con la rete B ed infine ha raggiunto la macchina desiderata, per l'invio della risposta affermativa dell'operazione il pacchetto di dati ha fatto il procedimento inverso.