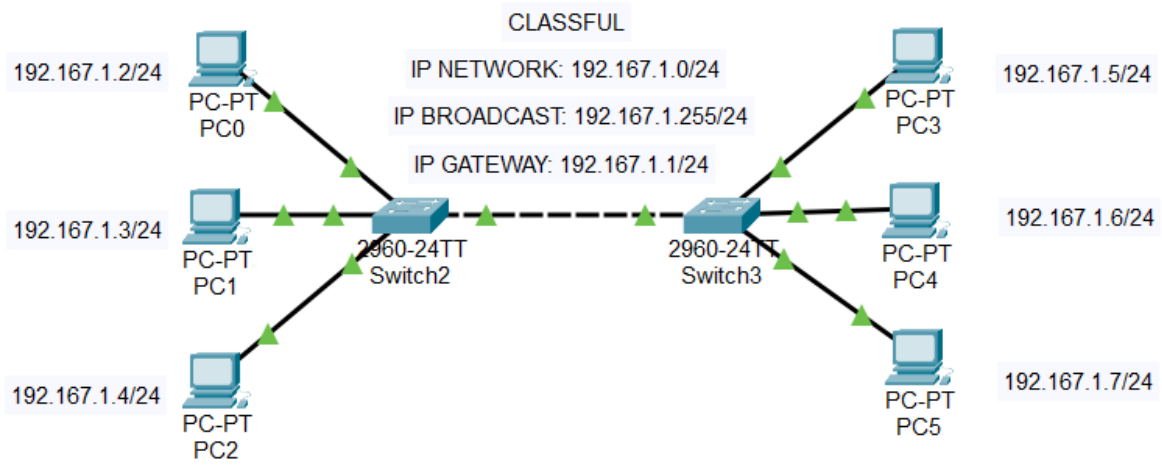
CONSEGNA [SETTIMANA 1 ESERCIZIO 3]



Nella schermata soprastante ho creato una rete comprendente:

- 2 switch
- 3 host (PC) per ogni switch
- Collegamenti FastEthernet FA tra switch e host
- Collegamento FastEthernet FA tra i due switch

Ho presupposto che la rete fosse classful e di classe C, indicando come IP network 192.167.1.0/24.

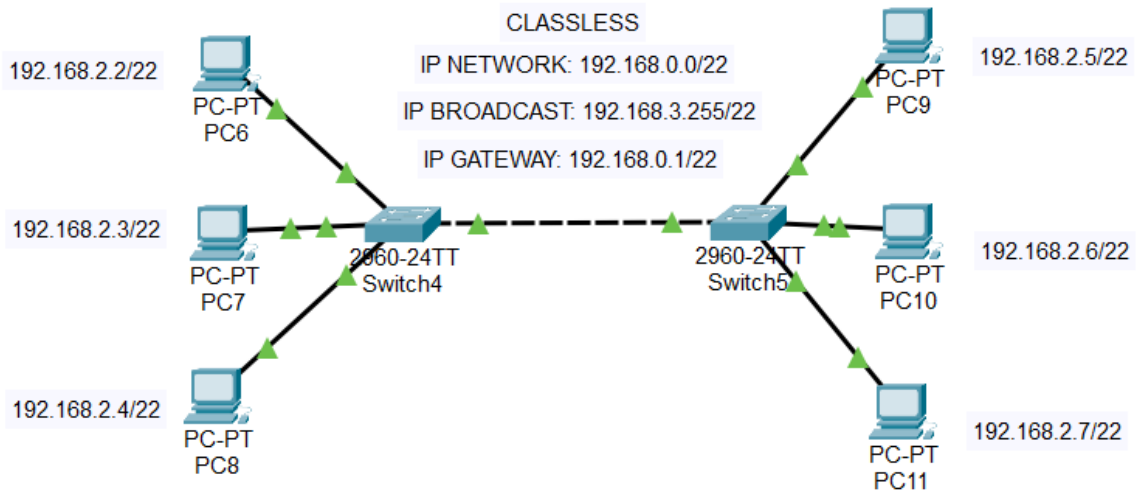
A questo punto ho assegnato un IP statico ad ognuno degli host presenti, indicando come IP gateway 192.167.1.1/24.

Terminata la configurazione degli IP ho utilizzato il prompt dei comandi degli host PC0 e PC3 per verificare il corretto collegamento tra di loro tramite il comando ping.

```
C:\>ping 192.167.1.2

Pinging 192.167.1.2 with 32 bytes of data:

Reply from 192.167.1.2: bytes=32 time<1ms TTL=128
Reply from 192.167.1.2: bytes=32 time=1ms TTL=128
Reply from 192.167.1.2: bytes=32 time<1ms TTL=128
Reply from 192.167.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.167.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

```
C:\>ping 192.167.1.5

Pinging 192.167.1.5 with 32 bytes of data:

Reply from 192.167.1.5: bytes=32 time<1ms TTL=128
Reply from 192.167.1.5: bytes=32 time=4ms TTL=128
Reply from 192.167.1.5: bytes=32 time<1ms TTL=128
Reply from 192.167.1.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.167.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 4ms, Average = 1ms

C:\>
```

In entrambi i casi ho ottenuto il 100% di pacchetti inviati e ricevuti.



Allo stesso modo ho creato una rete con le stesse caratteristiche ma classless, indicando come IP network 192.168.0.0/22.

Ho assegnato ad ognuno degli host un indirizzo IP statico, indicando come subnet mask 255.255.252.0.

Terminata la configurazione degli IP ho effettuato il ping tra gli host PC6 e PC9.

```
C:\>ping 192.168.2.5

Pinging 192.168.2.5 with 32 bytes of data:

Reply from 192.168.2.5: bytes=32 time<1ms TTL=128
Reply from 192.168.2.5: bytes=32 time<1ms TTL=128
Reply from 192.168.2.5: bytes=32 time=5ms TTL=128
Reply from 192.168.2.5: bytes=32 time=4ms TTL=128

Ping statistics for 192.168.2.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 5ms, Average = 2ms

C:\>
```

```
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=1ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```

In entrambi i casi ho ottenuto il 100% di pacchetti inviati e ricevuti.