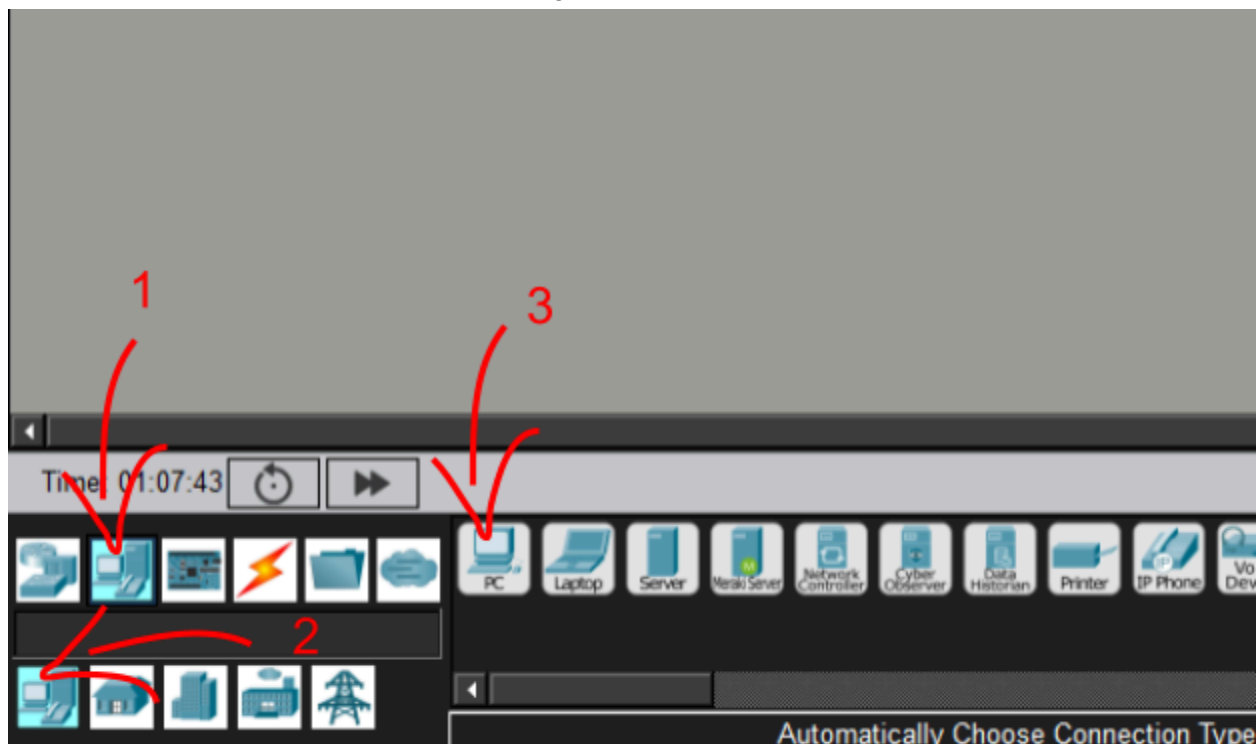


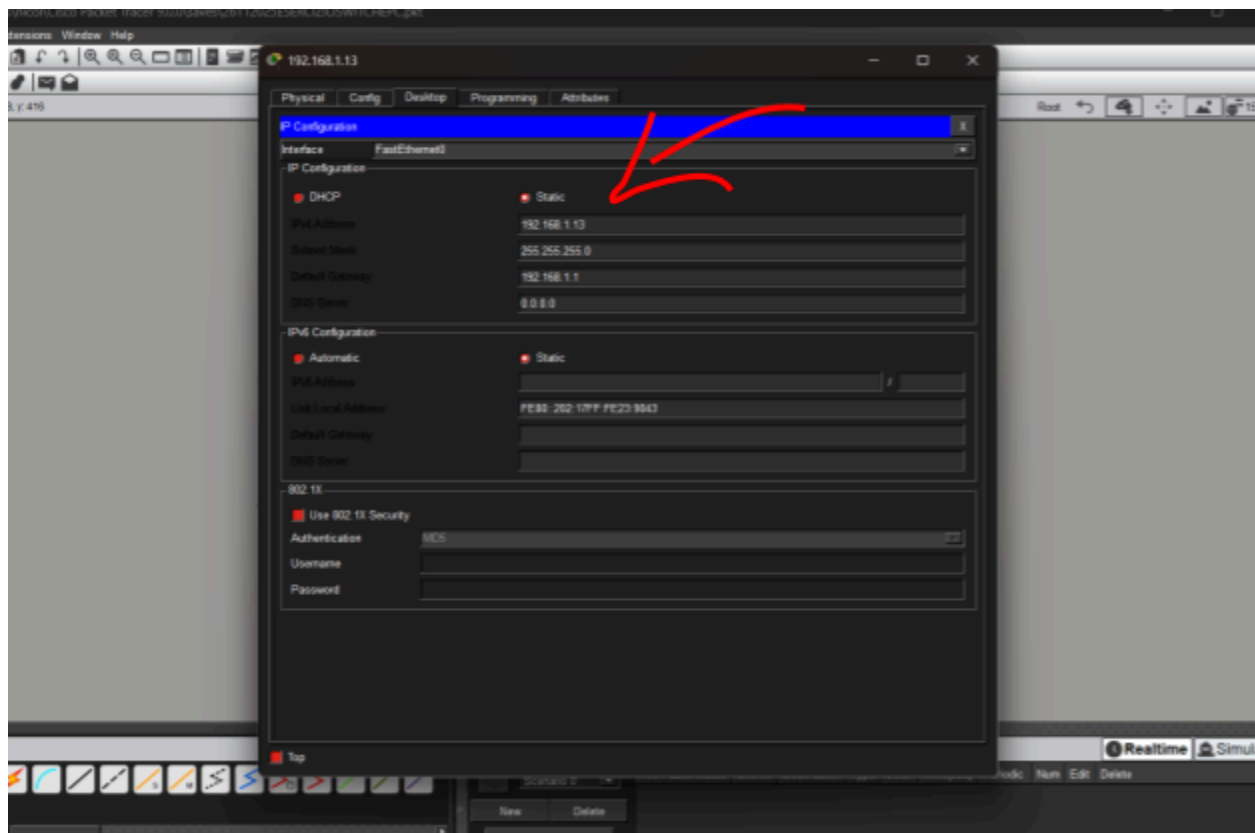
Per lo svolgimento dell'esercizio ho iniziato inserendo 2 switch tramite il pannello in basso seguendo le voci Network Devices così da creare due sottoreti che potessero comunicare tra di loro



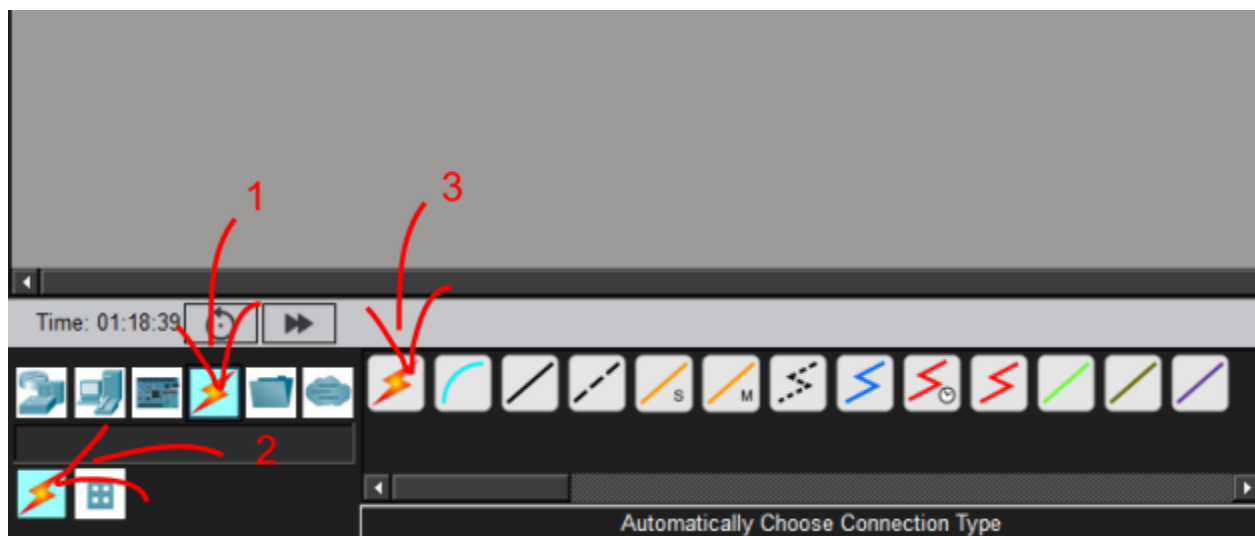
Successivamente ho aggiunto i 6 PC procedendo dalla sezione End Device -> PC e configurati in modo da inserire un ip di seguito riportato: 192.168.1.0 con la relativa maschera 255.255.255.0 dove per i primi 3 ottetti si intende la parte dell'ip relativo alla rete mentre per l'ultimo ottetto si intende la parte relativa agli host.



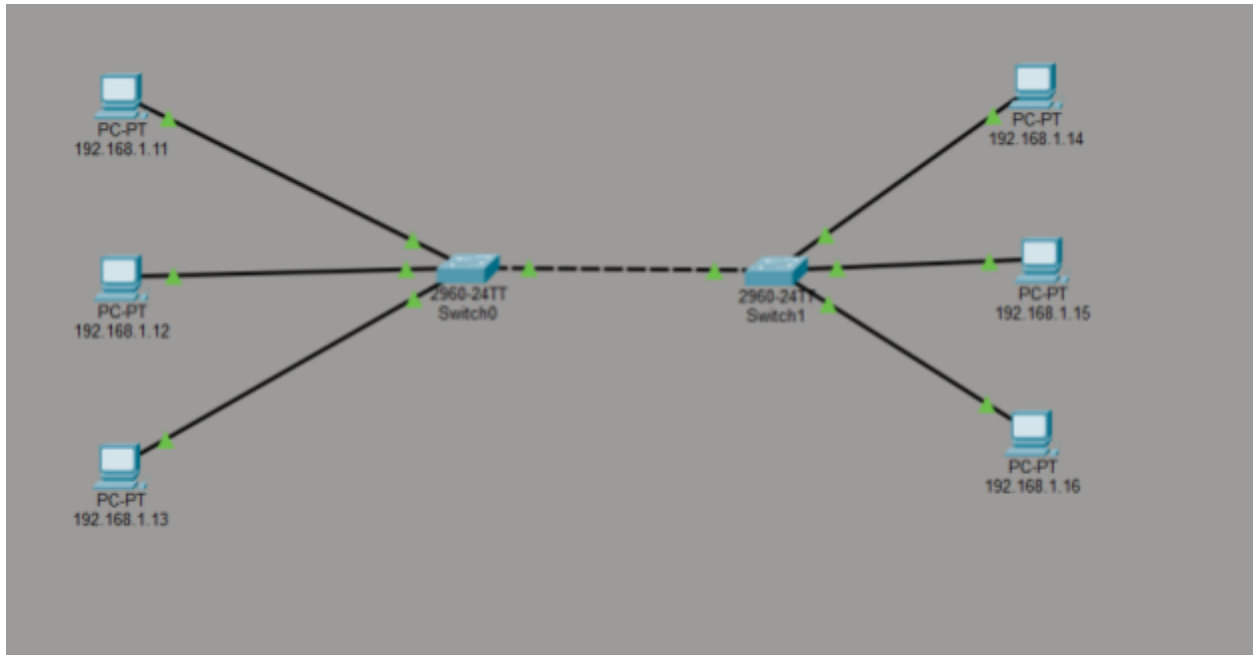
Aperto la sezione Desktop->IP Configuration, ho completato la configurazione degli ip per la connessione dei devices



Ho connesso poi ad ogni switch 3 dispositivi tramite la sezione Connections e dunque creando collegamenti tramite le porte FastEthernet



Riportando la seguente panoramica:



Ovviamente ho effettuato un test sfruttando il protocollo ARP per verificare l'interconnessione tra le due sottoreti tramite il pannello Command Prompt di uno dei PC ed effettuato il comando /ping 192.168.1.255 per mandare dei pacchetti in broadcast ed aspettare la risposta degli altri dispositivi presenti nella rete.

```
192.168.1.13
Physical Config Desktop Programming Attributes
Command Prompt
Reply from 192.168.1.12: bytes=32 time=5ms TTL=128
Reply from 192.168.1.16: bytes=32 time=5ms TTL=128
Reply from 192.168.1.15: bytes=32 time=5ms TTL=128
Reply from 192.168.1.14: bytes=32 time=5ms TTL=128
Reply from 192.168.1.12: bytes=32 time<1ms TTL=128
Reply from 192.168.1.16: bytes=32 time<1ms TTL=128
Reply from 192.168.1.15: bytes=32 time<1ms TTL=128
Reply from 192.168.1.14: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.255:
    Packets: Sent = 4, Received = 20, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\>ping 192.168.1.255

Pinging 192.168.1.255 with 32 bytes of data:

Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.12: bytes=32 time<1ms TTL=128
Reply from 192.168.1.16: bytes=32 time<1ms TTL=128
Reply from 192.168.1.15: bytes=32 time<1ms TTL=128
Reply from 192.168.1.14: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.12: bytes=32 time<1ms TTL=128
Reply from 192.168.1.16: bytes=32 time<1ms TTL=128
Reply from 192.168.1.15: bytes=32 time<1ms TTL=128
Reply from 192.168.1.14: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.12: bytes=32 time<1ms TTL=128
Reply from 192.168.1.16: bytes=32 time<1ms TTL=128
Reply from 192.168.1.15: bytes=32 time<1ms TTL=128
Reply from 192.168.1.14: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.12: bytes=32 time<1ms TTL=128
Reply from 192.168.1.16: bytes=32 time<1ms TTL=128
Reply from 192.168.1.15: bytes=32 time<1ms TTL=128
Reply from 192.168.1.14: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.1.255:
    Packets: Sent = 4, Received = 20, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```