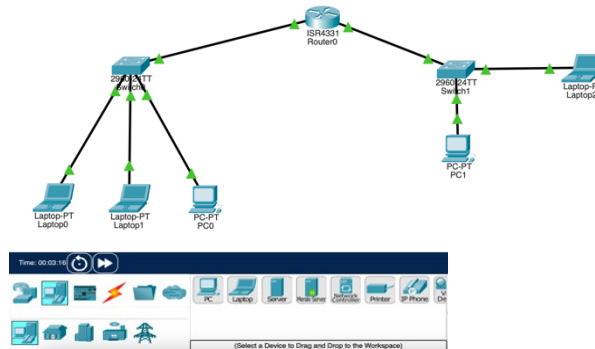
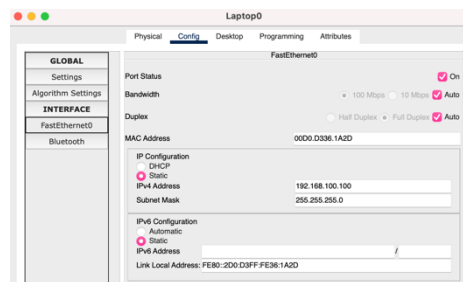


## PACKET TRACER W2D1

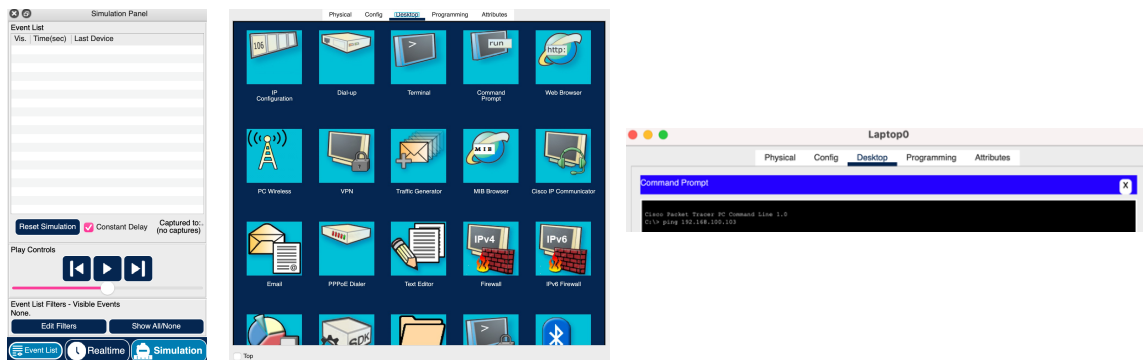
1. Metto in comunicazione Laptop0, Laptop1, PC0 con Switch0, che è collegato al Router0, che è collegato con Switch1, che a sua volta è messo in comunicazione con Laptop2 e PC1. Clicco sulle icone corrette e poi sul pannello principale.



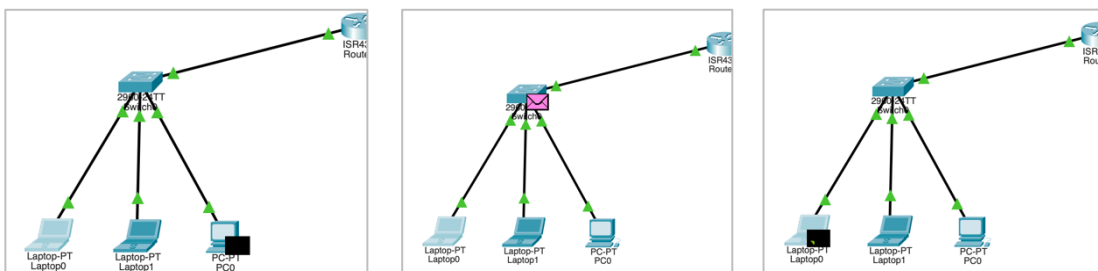
2. Configuro gli indirizzi IP cliccando su ogni computer, andando sul pannello “Config”, su “FastEthernet0” e inserendoli nell’apposito spazio “IPv4”:
  - Laptop0 → 192.168.100.100
  - PC0 → 192.168.100.103
  - Laptop2 → 192.168.200.100



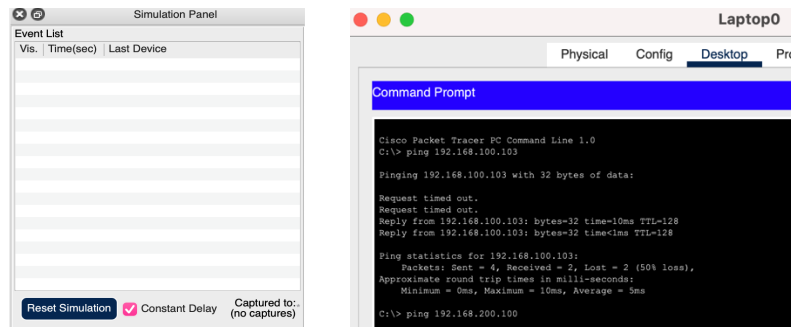
3. Entro in modalità simulazione, andando sul pannello “Desktop” apro “Command Prompt” sul Laptop0 e do il comando: “ping 192.168.100.103”



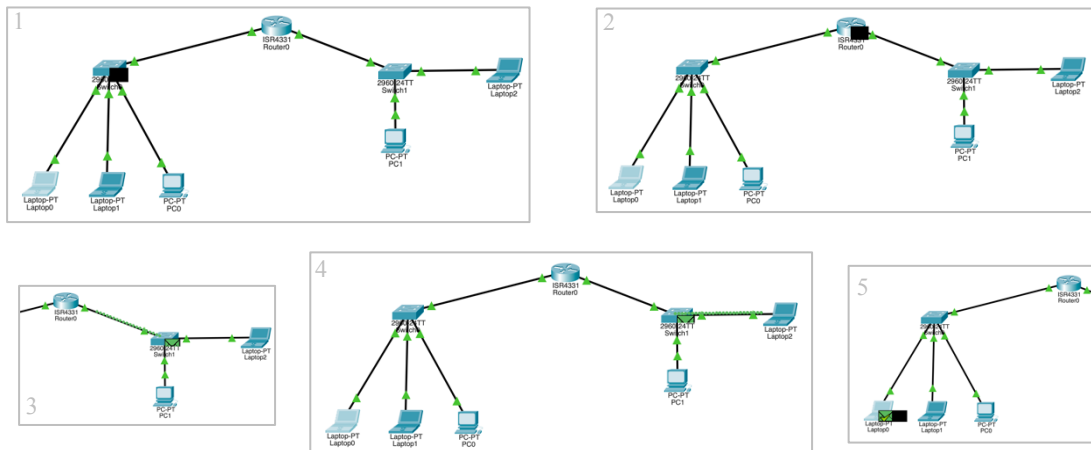
4. Il pacchetto esce da Laptop0, va nel PC0 e torna indietro



- Resetto la simulazione, riapro “Command Prompt” sul Laptop0 e do il comando: “ping 192.168.200.100”



- Il pacchetto esce da Laptop0, passa per Switch0, per Router0, per Switch1 e arriva a Laptop2



- Evidenzio come cambiano MAC e IP quando un pacchetto viene inviato

<b>Device Name: Router0</b> <b>Device Model: ISR4331</b> <b>Hostname: Router</b>					
Port	Link	VLAN	IP Address	IPv6 Address	MAC Address
GigabitEthernet0/0/0	Up	--	192.168.100.1/24	<not set>	0007.EC2C.2001
GigabitEthernet0/0/1	Up	--	192.168.200.1/24	<not set>	0007.EC2C.2002
GigabitEthernet0/0/2	Up	--	<not set>	<not set>	0007.EC2C.2003
Vlan1	Down	1	<not set>	<not set>	0030.F2DC.15C9
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Rack > Router0					
<b>Device Name: Laptop2</b> <b>Device Model: Laptop-PT</b>					
Port	Link	IP Address	IPv6 Address		MAC Address
FastEthernet0	Up	192.168.200.100/24	<not set>		0007.ECD2.BA87
Bluetooth	Down	<not set>	<not set>		000C.8583.28A5
Gateway: 192.168.200.1					
DNS Server: <not set>					
Line Number: <not set>					
Physical Location: Intercity > Home City > Corporate Office > Laptop2					
<b>Device Name: Laptop0</b> <b>Device Model: Laptop-PT</b>					
Port	Link	IP Address	IPv6 Address		MAC Address
FastEthernet0	Up	192.168.100.100/24	<not set>		00D0.D336.1A2D
Bluetooth	Down	<not set>	<not set>		0001.9632.1DA1
Gateway: 192.168.100.1					
DNS Server: <not set>					
Line Number: <not set>					
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Switch0					
<b>Device Name: Switch0</b> <b>Custom Device Model: 2960 10015</b> <b>Hostname: Switch</b>					
Port	Link	VLAN	IP Address	MAC Address	
FastEthernet0/1	Up	1	0040.080B.3801	0000.773C.3801	
FastEthernet0/2	Up	1	0040.080B.3802	0000.773C.3802	
FastEthernet0/3	Up	1	0040.080B.3803	0000.773C.3803	
FastEthernet0/4	Down	1	0040.080B.3804	0000.773C.3804	
FastEthernet0/5	Down	1	0040.080B.3805	0000.773C.3805	
FastEthernet0/6	Down	1	0040.080B.3806	0000.773C.3806	
FastEthernet0/7	Down	1	0040.080B.3807	0000.773C.3807	
FastEthernet0/8	Down	1	0040.080B.3808	0000.773C.3808	
FastEthernet0/9	Down	1	0040.080B.3809	0000.773C.3809	
FastEthernet0/10	Down	1	0040.080B.380A	0000.773C.380A	
FastEthernet0/11	Down	1	0040.080B.380B	0000.773C.380B	
FastEthernet0/12	Down	1	0040.080B.380C	0000.773C.380C	
FastEthernet0/13	Down	1	0040.080B.380D	0000.773C.380D	
FastEthernet0/14	Down	1	0040.080B.380E	0000.773C.380E	
FastEthernet0/15	Down	1	0040.080B.380F	0000.773C.380F	
FastEthernet0/16	Down	1	0040.080B.3810	0000.773C.3810	
FastEthernet0/17	Down	1	0040.080B.3811	0000.773C.3811	
FastEthernet0/18	Down	1	0040.080B.3812	0000.773C.3812	
FastEthernet0/19	Down	1	0040.080B.3813	0000.773C.3813	
FastEthernet0/20	Down	1	0040.080B.3814	0000.773C.3814	
FastEthernet0/21	Down	1	0040.080B.3815	0000.773C.3815	
FastEthernet0/22	Down	1	0040.080B.3816	0000.773C.3816	
FastEthernet0/23	Down	1	0040.080B.3817	0000.773C.3817	
FastEthernet0/24	Down	1	0040.080B.3818	0000.773C.3818	
GigabitEthernet0/1	Down	1	0040.080B.3819	0000.773C.3819	
GigabitEthernet0/2	Down	1	0040.080B.381A	0000.773C.381A	
Vlan1	Down	1	<not set>	000A.410A.1092	
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Switch0					
<b>Device Name: Switch1</b> <b>Custom Device Model: 2960 10015</b> <b>Hostname: Switch</b>					
Port	Link	VLAN	IP Address	MAC Address	
FastEthernet0/1	Up	1	0040.080B.3801	0000.773C.3801	
FastEthernet0/2	Up	1	0040.080B.3802	0000.773C.3802	
FastEthernet0/3	Up	1	0040.080B.3803	0000.773C.3803	
FastEthernet0/4	Down	1	0040.080B.3804	0000.773C.3804	
FastEthernet0/5	Down	1	0040.080B.3805	0000.773C.3805	
FastEthernet0/6	Down	1	0040.080B.3806	0000.773C.3806	
FastEthernet0/7	Down	1	0040.080B.3807	0000.773C.3807	
FastEthernet0/8	Down	1	0040.080B.3808	0000.773C.3808	
FastEthernet0/9	Down	1	0040.080B.3809	0000.773C.3809	
FastEthernet0/10	Down	1	0040.080B.380A	0000.773C.380A	
FastEthernet0/11	Down	1	0040.080B.380B	0000.773C.380B	
FastEthernet0/12	Down	1	0040.080B.380C	0000.773C.380C	
FastEthernet0/13	Down	1	0040.080B.380D	0000.773C.380D	
FastEthernet0/14	Down	1	0040.080B.380E	0000.773C.380E	
FastEthernet0/15	Down	1	0040.080B.380F	0000.773C.380F	
FastEthernet0/16	Down	1	0040.080B.3810	0000.773C.3810	
FastEthernet0/17	Down	1	0040.080B.3811	0000.773C.3811	
FastEthernet0/18	Down	1	0040.080B.3812	0000.773C.3812	
FastEthernet0/19	Down	1	0040.080B.3813	0000.773C.3813	
FastEthernet0/20	Down	1	0040.080B.3814	0000.773C.3814	
FastEthernet0/21	Down	1	0040.080B.3815	0000.773C.3815	
FastEthernet0/22	Down	1	0040.080B.3816	0000.773C.3816	
FastEthernet0/23	Down	1	0040.080B.3817	0000.773C.3817	
FastEthernet0/24	Down	1	0040.080B.3818	0000.773C.3818	
GigabitEthernet0/1	Down	1	0040.080B.3819	0000.773C.3819	
GigabitEthernet0/2	Down	1	0040.080B.381A	0000.773C.381A	
Vlan1	Down	1	<not set>	000A.410A.1092	
Physical Location: Intercity > Home City > Corporate Office > Main Wiring Closet > Switch1					

## ESERCIZIO FACOLTATIVO

Troviamo diversi protocolli durante la simulazione, quelli utilizzati nel livello Rete del modello ISO/OSI sono:

- IP (Internet Protocol): indirizza e permette di inviare dati da un dispositivo a un altro su Internet;
- ICMP (Internet Control Message Protocol): segnala e diagnostica errori e problemi di rete.

Troviamo diversi protocolli durante la simulazione, quelli utilizzati nel livello Trasporto del modello ISO/OSI sono:

- TCP (Transmission Control Protocol): rende la comunicazione affidabile con connessione orientata;
- UDP (User Datagram Protocol): rende la comunicazione non affidabile senza connessione;
- SCTP (Stream Control Transmission Protocol): fornisce uno strumento efficace per trasportare informazioni di segnalazione su reti IP;
- RSVP (Resource Reservation Protocol): mantiene viva la robustezza delle reti prive di connessione.

