

1. È necessario utilizzare la Subnet Mask 255.255.255.224 \24 poiché utilizziamo un \27 e possiamo realizzare al massimo 8 reti $\rightarrow 2^3$

2.

3.

Laboratorio

RANGE: 192.168.100.0 /24

Crescere 5 sottoreti

$$2^{32-27} = 2^5 = 32 - 2 = 30$$

1 Subnet: ind. di rete: 192.168.100.0/27

N° di host: $\left\{ \begin{array}{l} 192.168.100.1/27 \\ \vdots \\ 192.168.100.30/27 \end{array} \right.$

ind. di broadcast: 192.168.100.31/27

2 Subnet: ind. di rete: 192.168.100.32/27

N° host: $\left\{ \begin{array}{l} 192.168.100.33/27 \\ \vdots \\ 192.168.100.62/27 \end{array} \right.$

ind. di broadcast: 192.168.100.63/27

3 Subnet: ind. di rete: 192.168.100.64/27

N° host: $\left\{ \begin{array}{l} 192.168.100.65/27 \\ \vdots \\ 192.168.100.94/27 \end{array} \right.$

ind. di broadcast: 192.168.100.95/27

4 Subnet: ind. di rete: 192.168.100.96/27

N° host: $\left\{ \begin{array}{l} 192.168.100.97/27 \\ \vdots \\ 192.168.100.126/27 \end{array} \right.$

ind. di broadcast: 192.168.100.127/27

5 Subnet: ind. di rete: 192.168.100.128/27

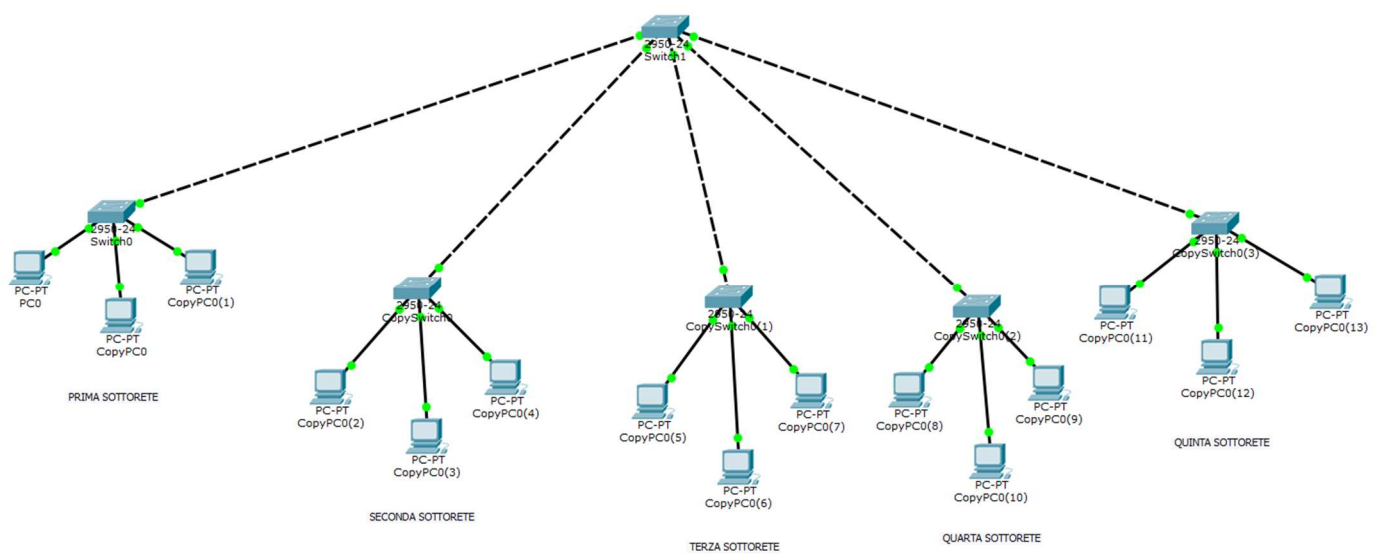
N° host: $\left\{ \begin{array}{l} 192.168.100.129/27 \\ \vdots \\ 192.168.100.158/27 \end{array} \right.$

ind. di broadcast: 192.168.100.159/27

Fine laboratorio

3.

- SITUAZIONE INIZIALE:**



- PING PRIMA SOTTORETE:**

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	PC0	ICMP	
	0.004	--	PC0	ICMP	
	0.005	PC0	Switch0	ICMP	
	0.006	Switch0	CopyPC0(1)	ICMP	
	0.007	CopyPC0(1)	Switch0	ICMP	
	0.008	Switch0	PC0	ICMP	

- PING SECONDA SOTTORETE:**

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	CopyPC0(2)	ICMP	
	0.004	--	CopyPC0(2)	ICMP	
	0.005	CopyPC0(2)	CopySwit...	ICMP	
	0.006	CopySwitch0	CopyPC0(4)	ICMP	
	0.007	CopyPC0(4)	CopySwit...	ICMP	
	0.008	CopySwitch0	CopyPC0(2)	ICMP	

- PING TERZA SOTTORETE:**

Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	CopyPC0(5)	ICMP	
	0.004	--	CopyPC0(5)	ICMP	
	0.005	CopyPC0(5)	CopySwitch0(1)	ICMP	
	0.006	CopySwitch0(1)	CopyPC0(7)	ICMP	
	0.007	CopyPC0(7)	CopySwitch0(1)	ICMP	
	0.008	CopySwitch0(1)	CopyPC0(5)	ICMP	

- **PING QUARTA SOTTORETE:**

Event List					
Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	CopyPC0(8)	ICMP	
	0.004	--	CopyPC0(8)	ICMP	
	0.005	CopyPC0(8)	CopySwitch0(2)	ICMP	
	0.006	CopySwitch0(2)	CopyPC0(9)	ICMP	
	0.007	CopyPC0(9)	CopySwitch0(2)	ICMP	
	0.008	CopySwitch0(2)	CopyPC0(8)	ICMP	

- **PING QUINTA SOTTORETE:**

Event List					
Vis.	Time(sec)	Last Device	At Device	Type	Info
	0.000	--	CopyPC0(11)	ICMP	
	0.004	--	CopyPC0(11)	ICMP	
	0.005	CopyPC0(11)	CopySwitch0(3)	ICMP	
	0.006	CopySwitch0(3)	CopyPC0(13)	ICMP	
	0.007	CopyPC0(13)	CopySwitch0(3)	ICMP	
	0.008	CopySwitch0(3)	CopyPC0(11)	ICMP	

- **PING TRA SOTTORETI:** Tra le sottoreti il ping non avviene.

