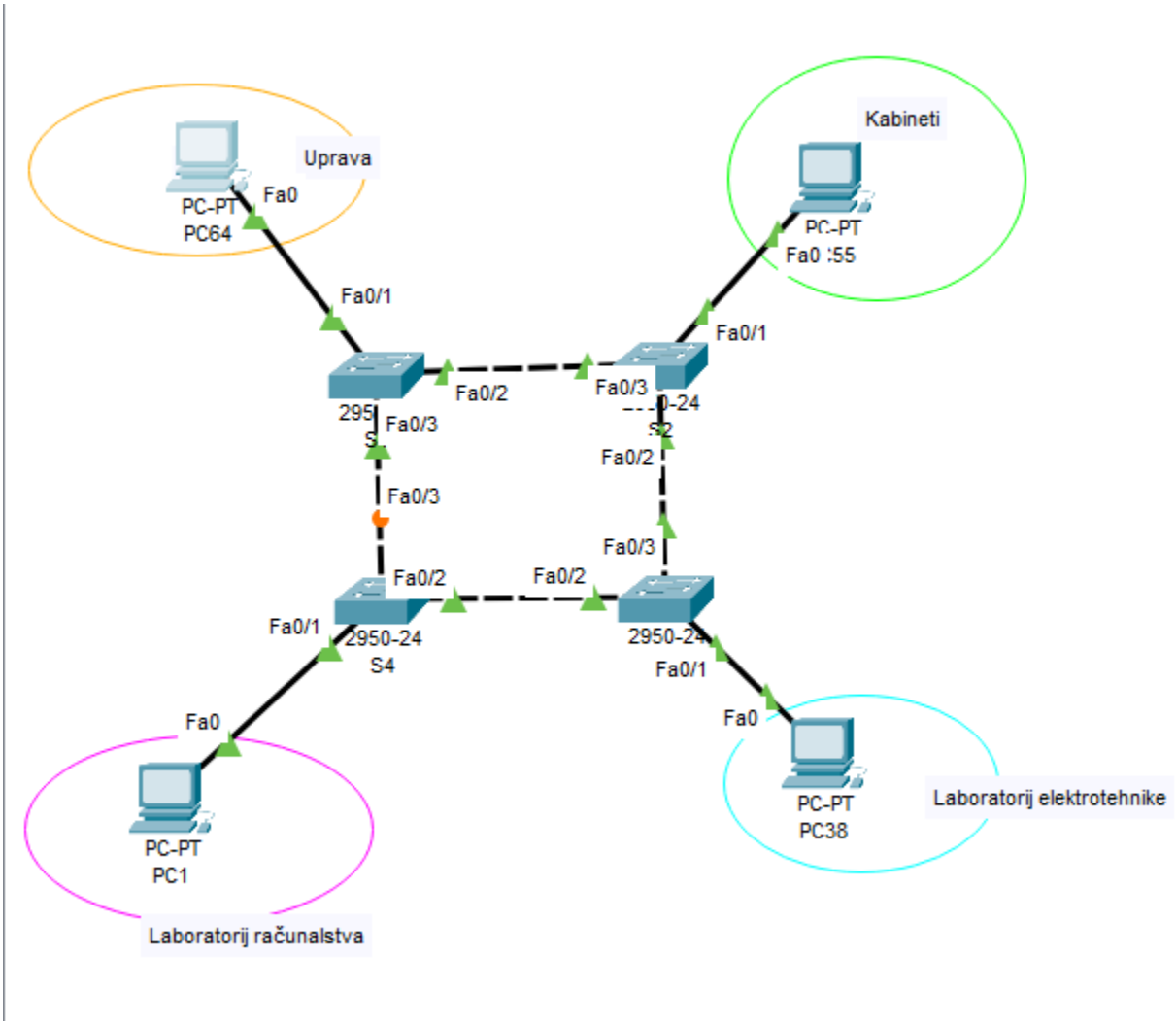
LV03_Subnetiranje pomoću VLSM tehnike

1. Zadatak:

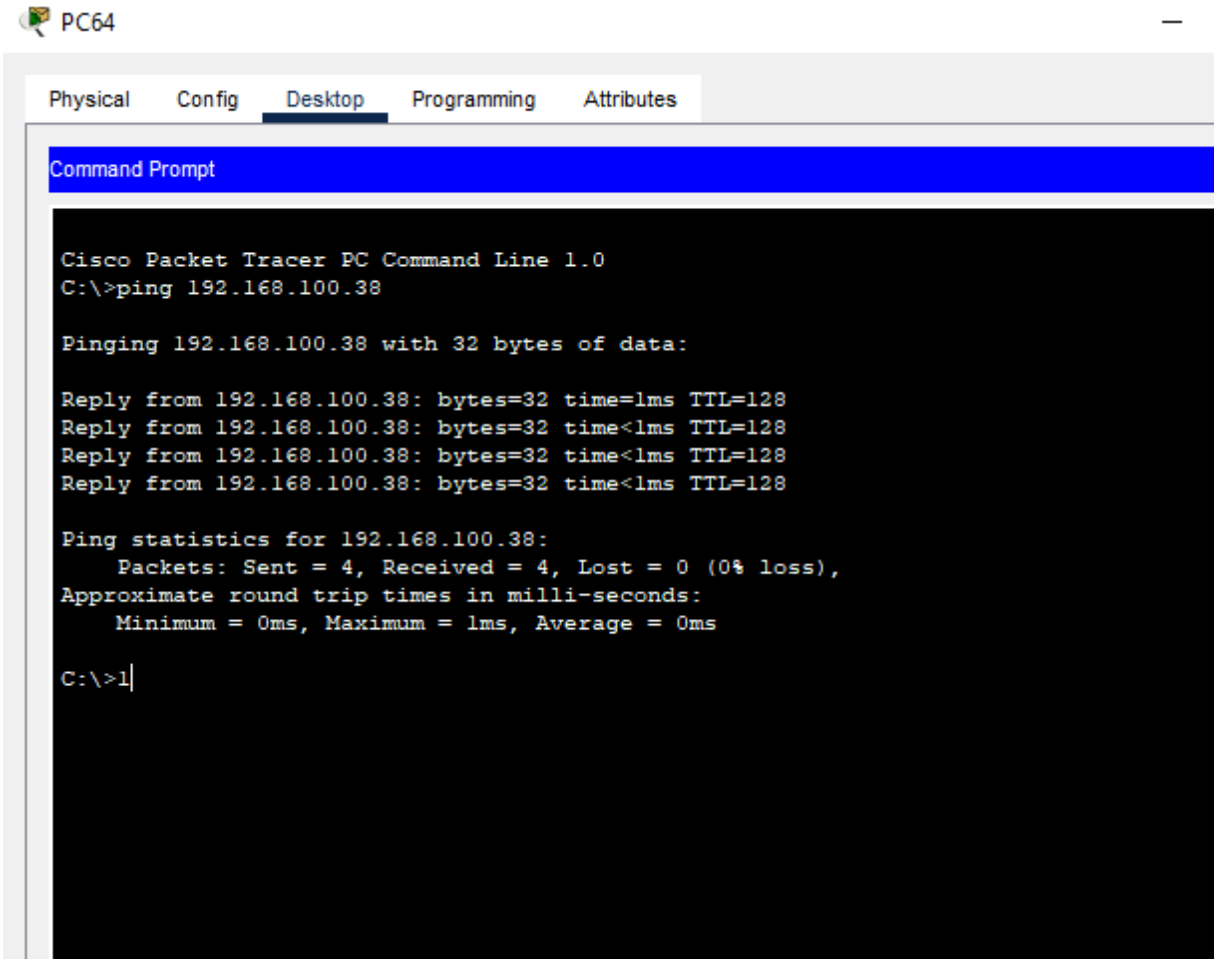
1. U tehničkoj školi je u uporabi 68 računala, prema slijedećem rasporedu:

Organizacijska jedinica	Broj računala	Naziv računala
Laboratorij računarstva	37	PC1 – PC37
Laboratorij elektrotehnike	17	PC38 – PC54
Kabineti	9	PC55 – PC63
Uprava	5	PC64 – PC68

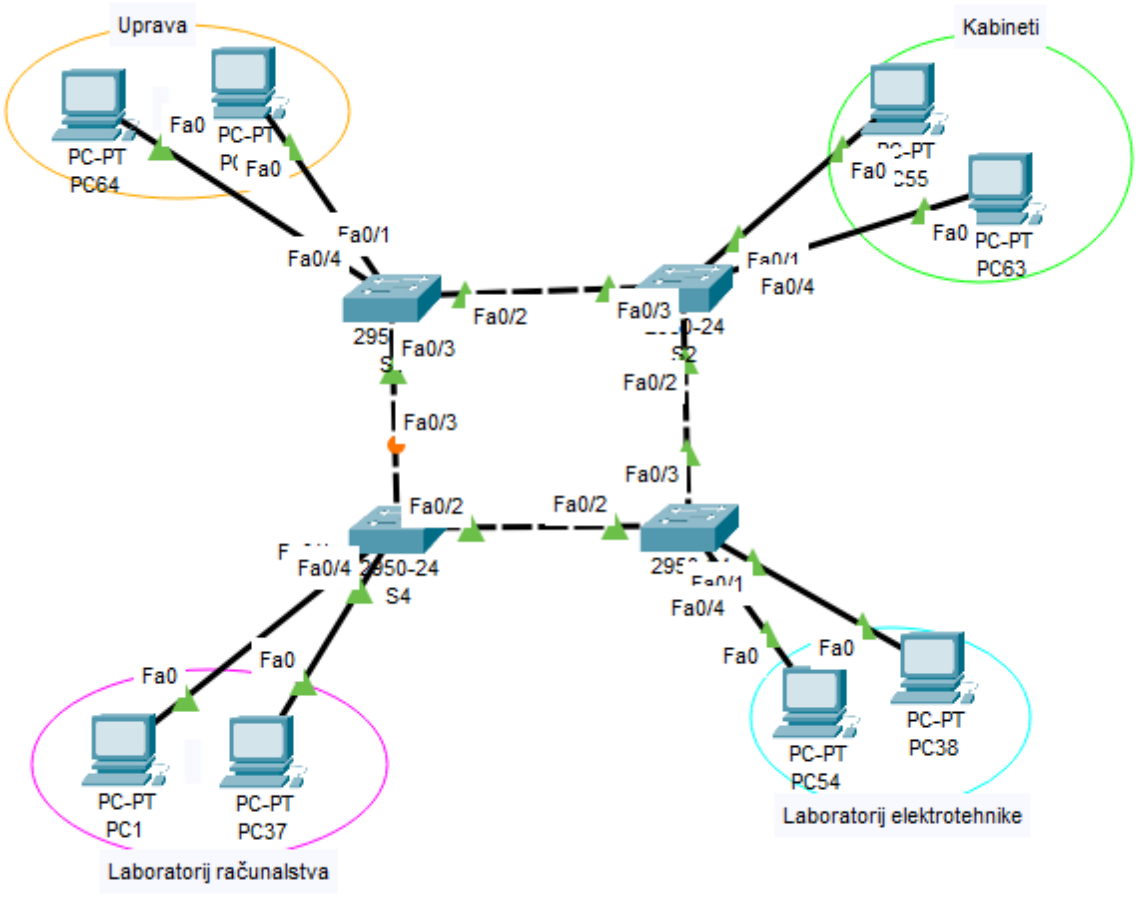
Adresni blok: 192.168.100.0/24

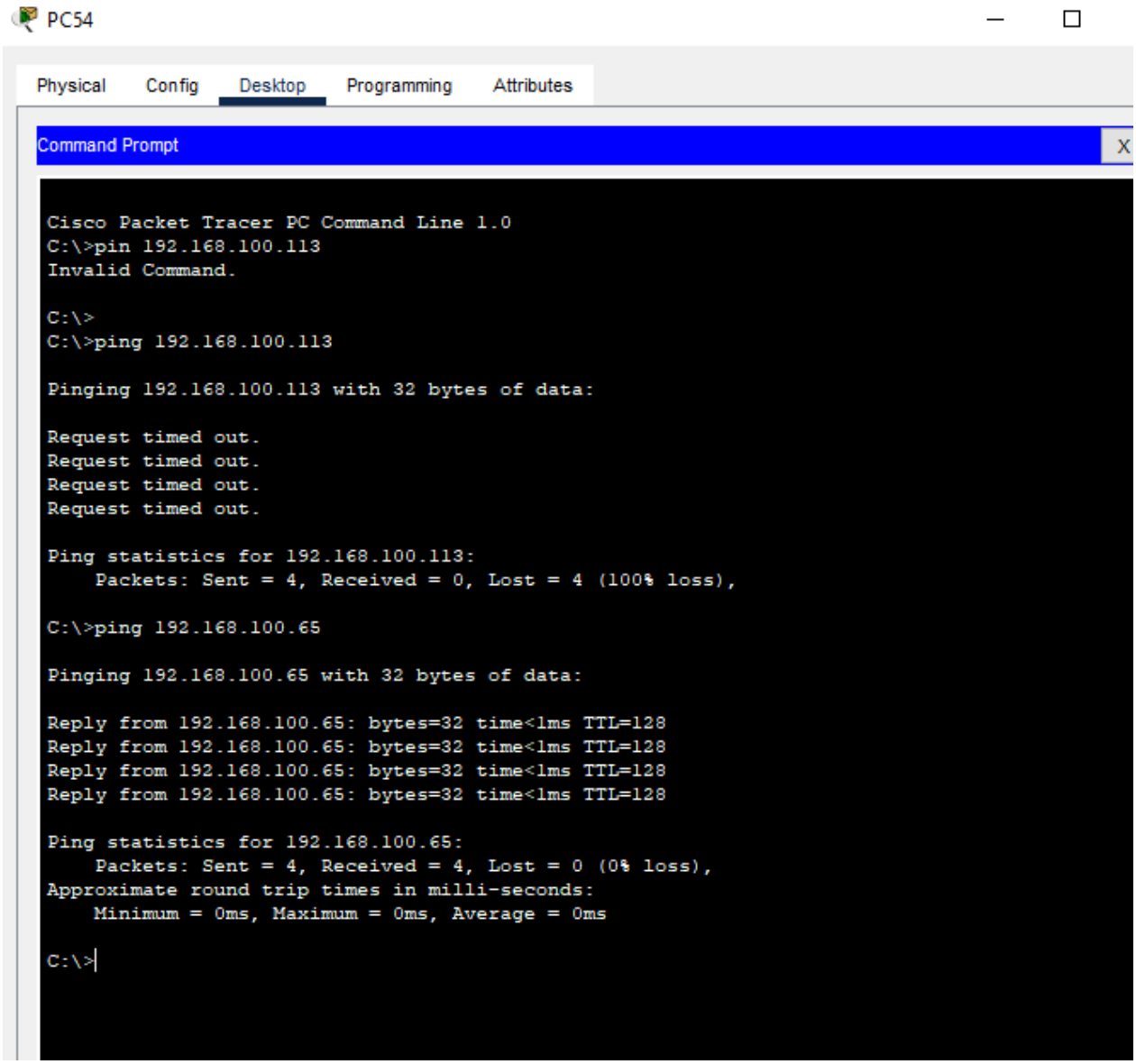


Provjeri veze međusobnim pingiranjem:



2. Zadatak: Uprava škole odlučila je da se izvrši subnetiranje postojeće mreže uporabom VLSM, kako bi svaka organizacijska cjelina imala neovisnu mrežu. Tehničari imaju zadatak da nakon subnetiranja prikažu i dokumentiraju novu adresnu shemu, te uporabom Packet Tracera provjere da li su mreže neovisne.





Subnetting Successful

Major Network: 192.168.100.0/24
Available IP addresses in major network: 254
Number of IP addresses needed: 68
Available IP addresses in allocated subnets: 112
About 47% of available major network address space is used
About 61% of subnetted network address space is used

Subnet Name	Needed Size	Allocated Size	Address	Mask	Dec Mask	Assignable Range	Broadcast
A	37	62	192.168.100.0	/26	255.255.255.192	192.168.100.1 - 192.168.100.62	192.168.100.63
B	17	30	192.168.100.64	/27	255.255.255.224	192.168.100.65 - 192.168.100.94	192.168.100.95
C	9	14	192.168.100.96	/28	255.255.255.240	192.168.100.97 - 192.168.100.110	192.168.100.111
D	5	6	192.168.100.112	/29	255.255.255.248	192.168.100.113 - 192.168.100.118	192.168.100.119