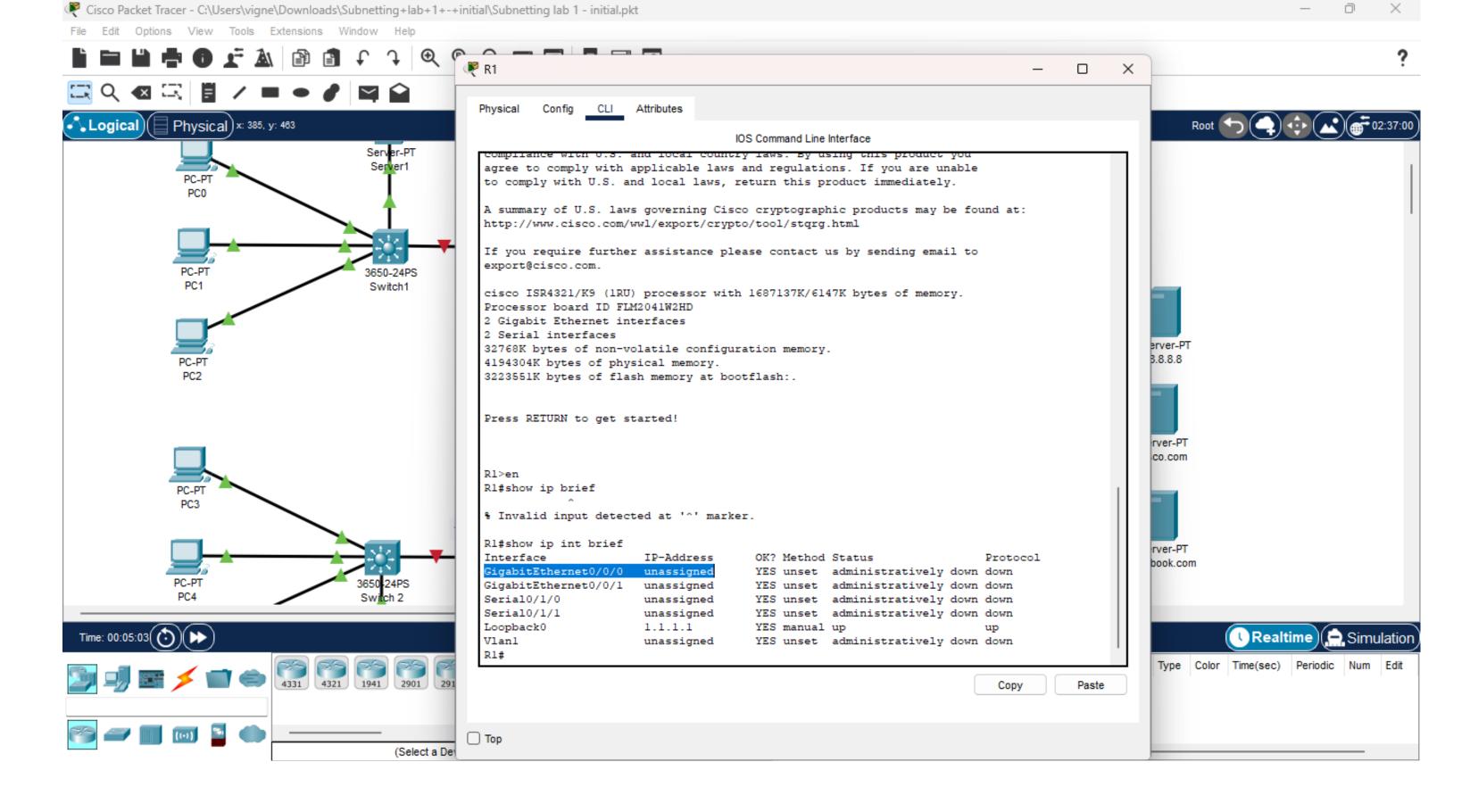
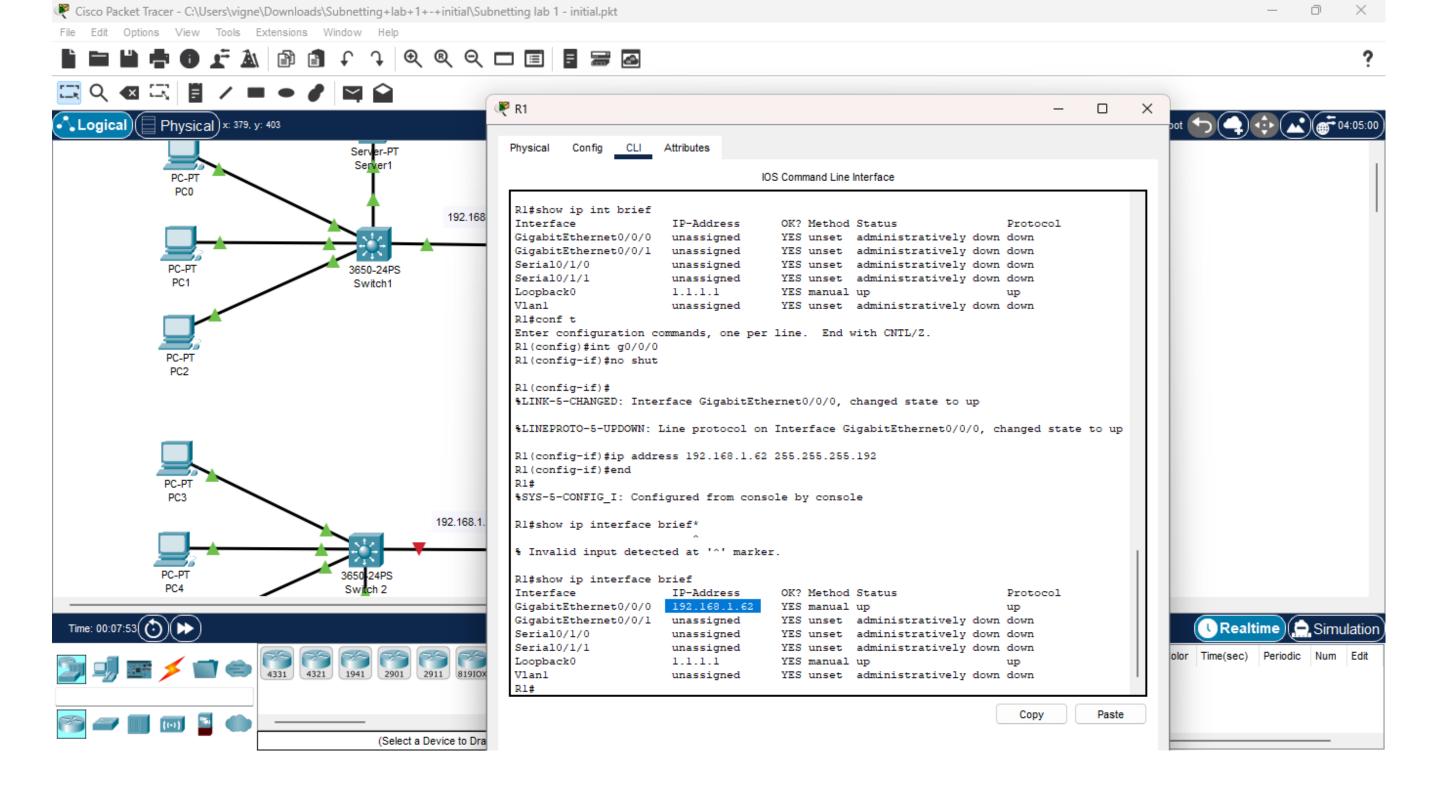


IP SUBNETING

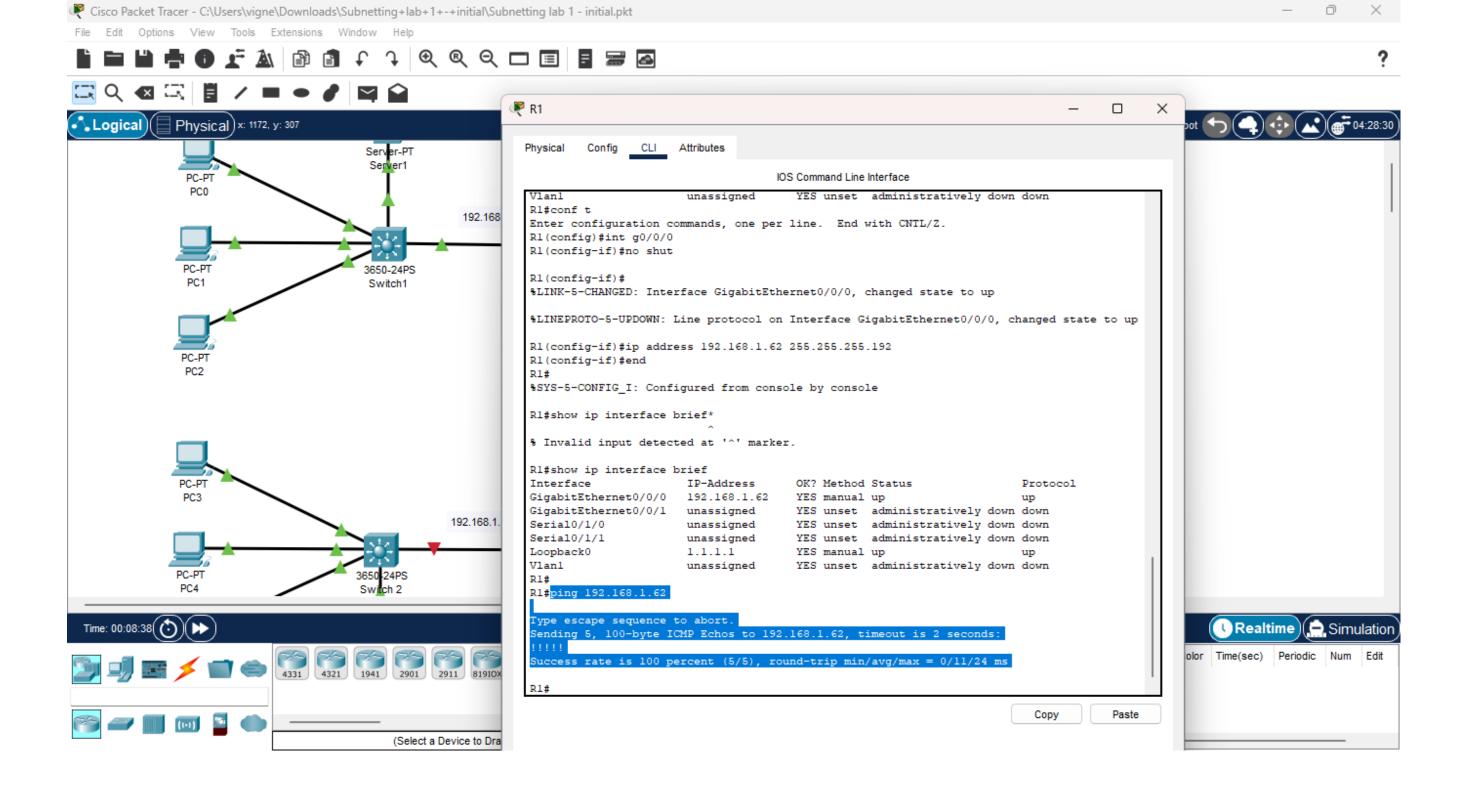
- Configure the Network as Follows
- 1.subnet 192.168.1.0/24 Subnet this into 4 subnet
- 2.subnet 1 for site 1
- 3. subnet 2 for the link between R1 and the internet router
- 4.subnet 3 for site 2
- 5. subnet 4 for the link between R2 and the internet router
- 6.configure the switches with the second last ip address in the
- subnet
- 7.configure the DHCP servers with the third last ip address in the subnet
- 8.configure the DHCP server to allocate IP addresses to the clients
- 9. Verify the pc's can access Cisco.com using the browser



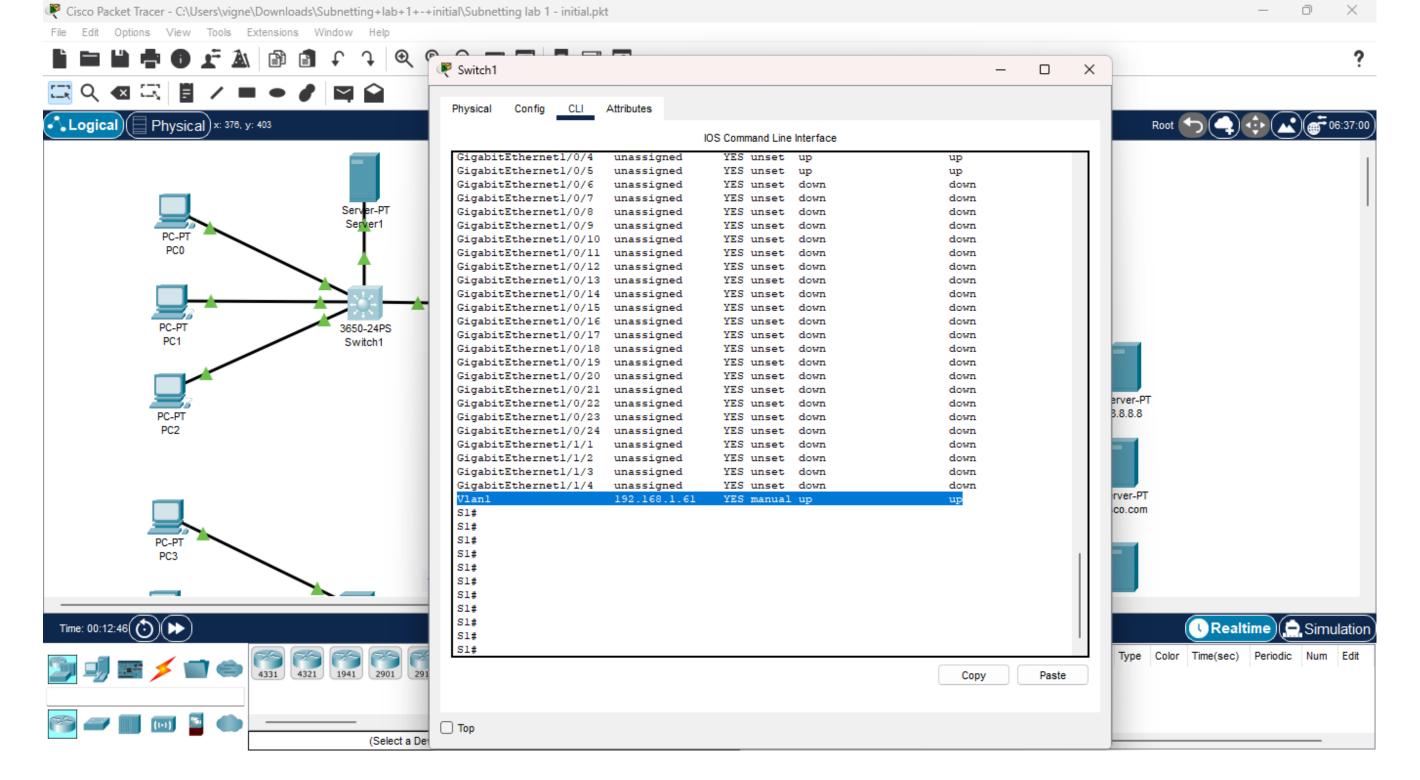
- configuring Router (R1) with the last ip address in the subnet
- gigabit 0/0/0 is not assigned, so assign the ip address.



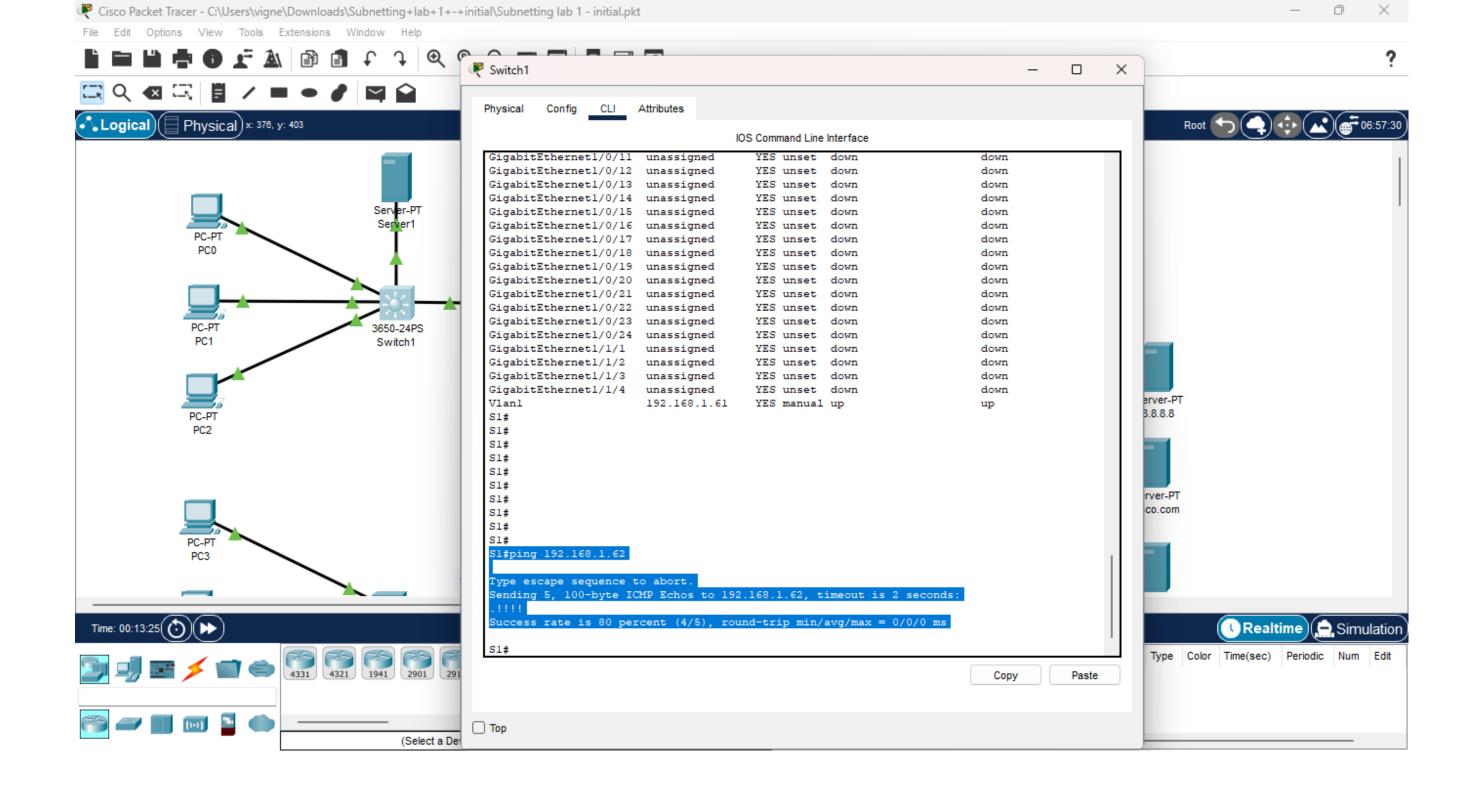
- gigabit 0/0/0 is assigned with the ip address 192.168.1.62 and the mask 255.255.255.192(last ip address in the subnet)
- Lets try to ping the local ip address



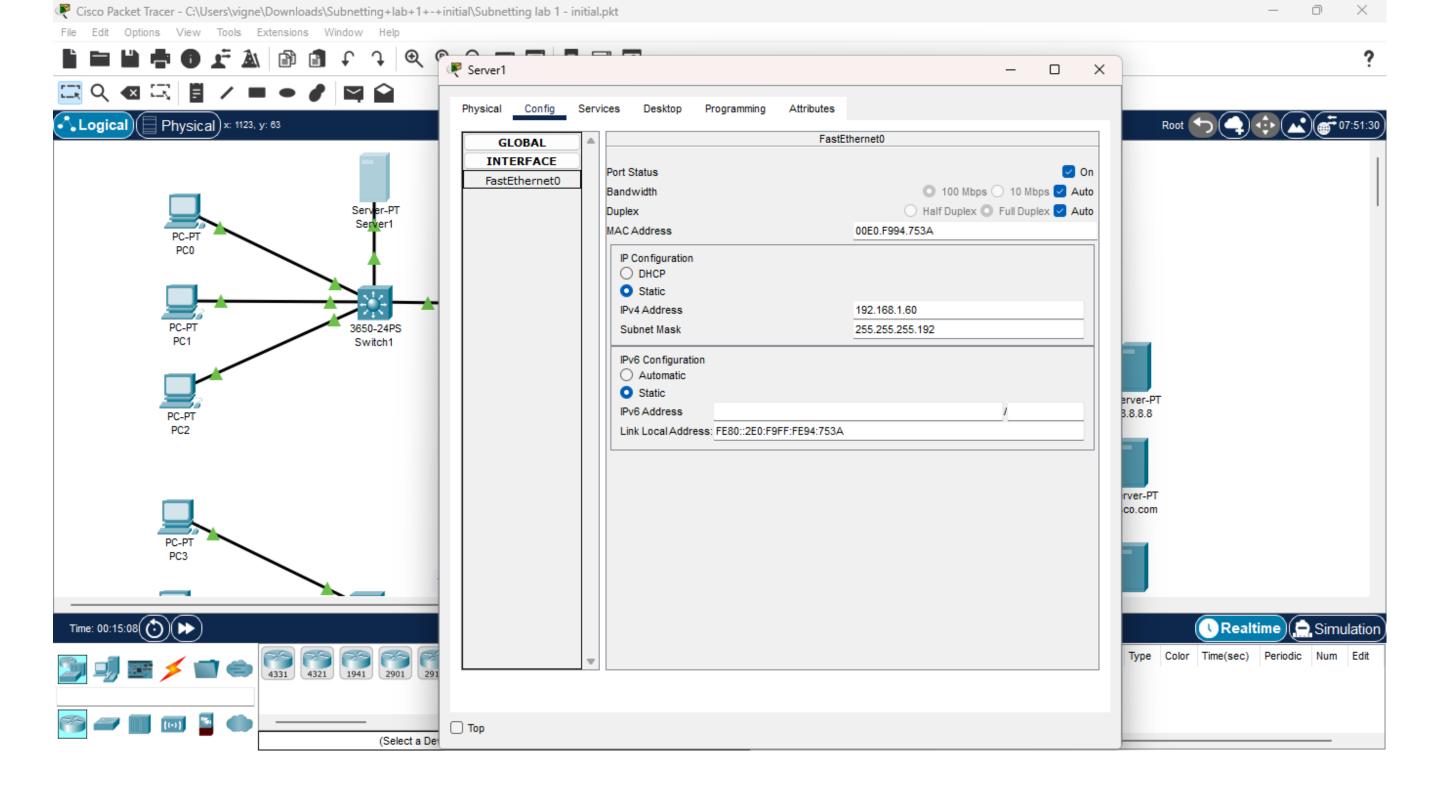
- Ping 192.168.1.62
- ping is successful



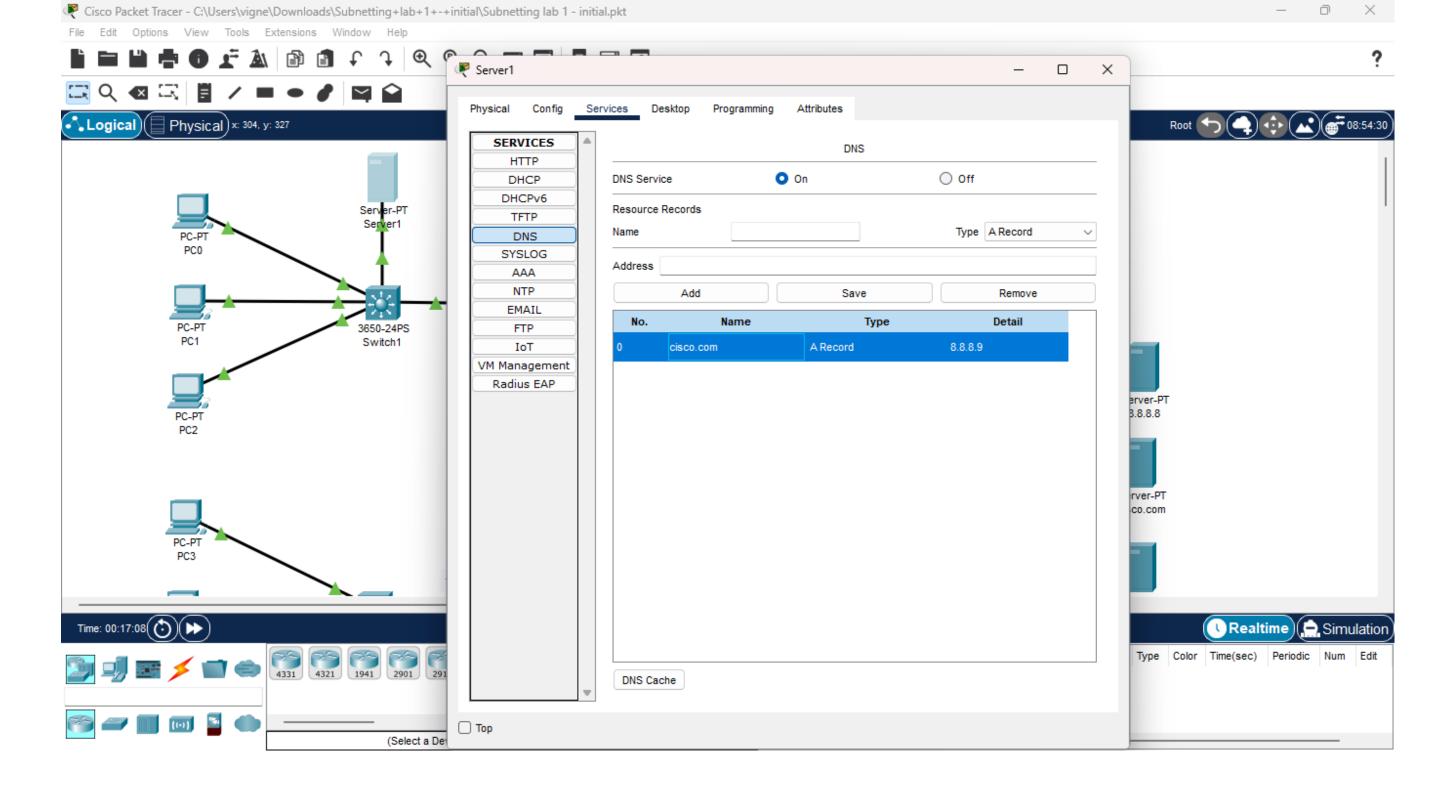
- Switch needs to be configured with the 2nd lastIp address in the subnet
- configure it with the ip address 192.168.1.61 with the subnet 255.255.255.192
- Ip address of the switch is successfully configured



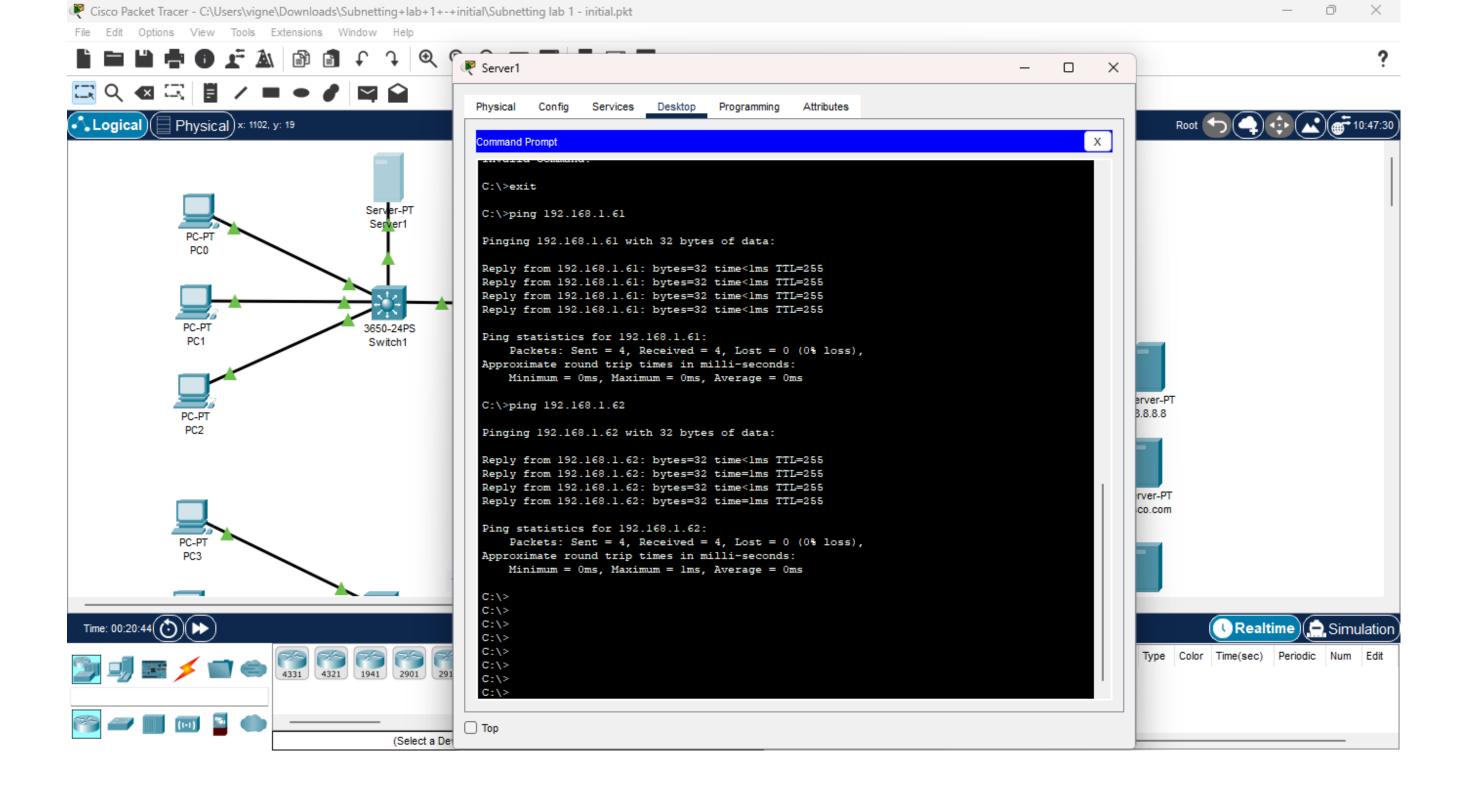
- Lets check the switch can ping the router
- yes it can .. switch successfully pings the router



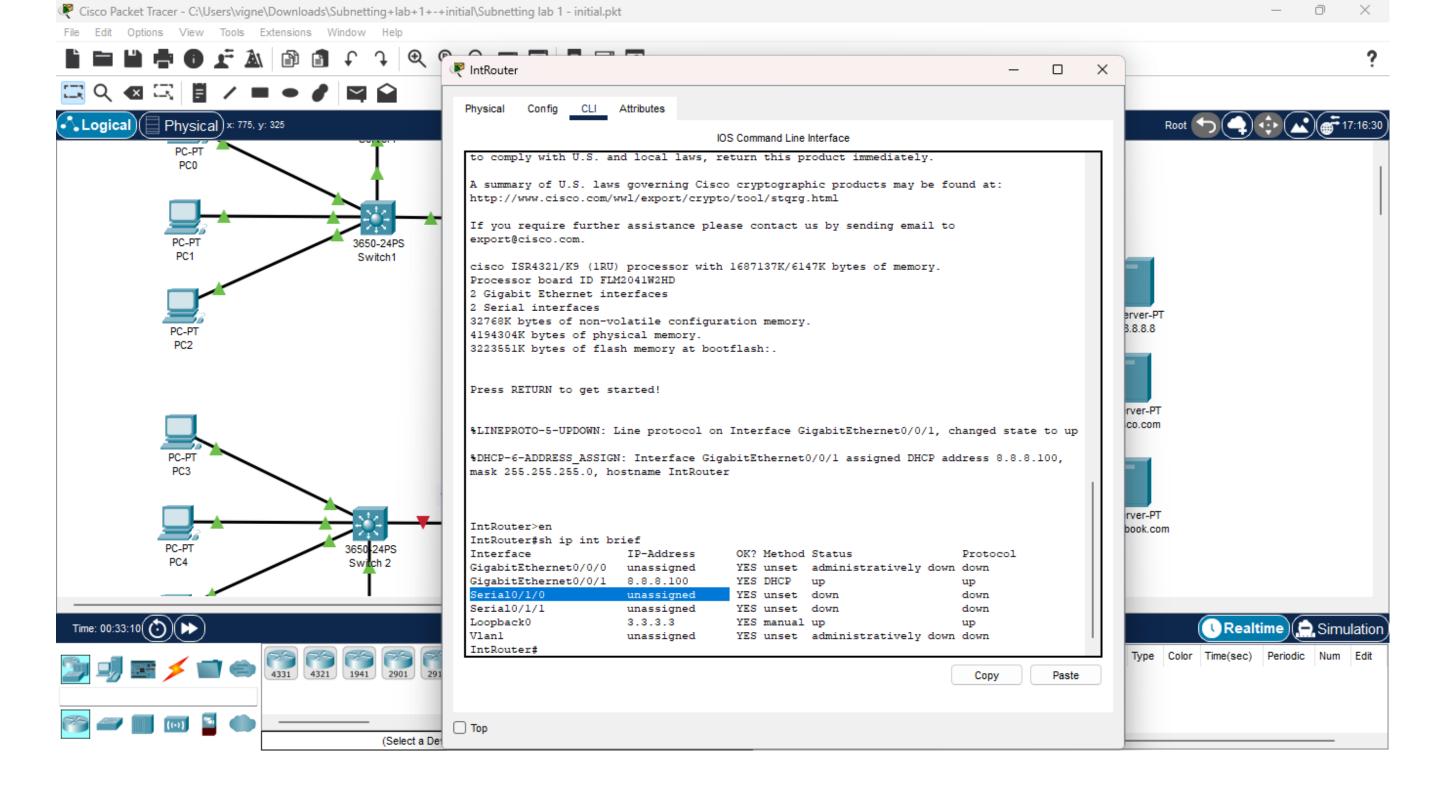
- Lets configure the DHCP server
- configure static Ip address as 192.168.1.60
- Default gateway will be the router 192.168.1.62



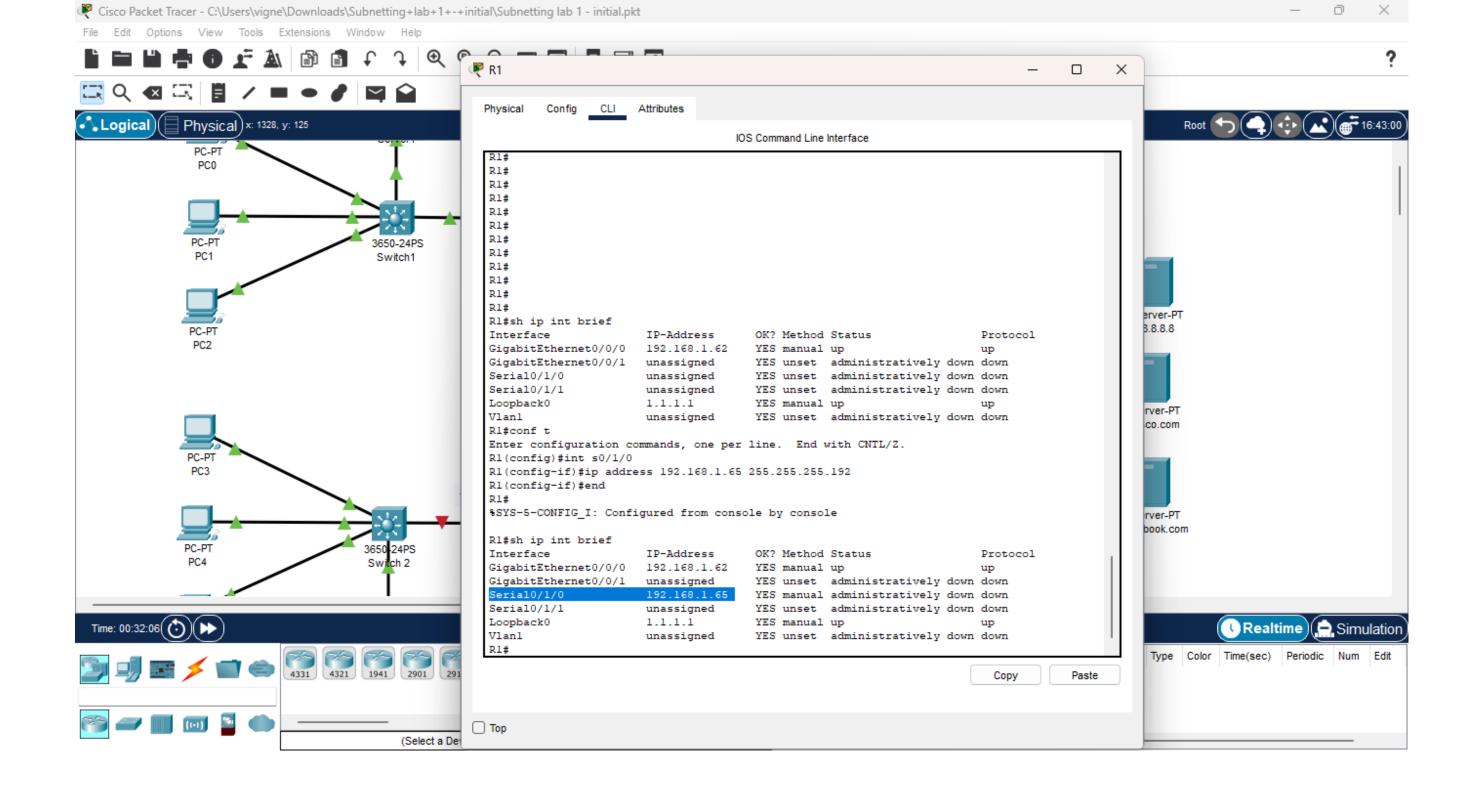
- DNS Server will be 8.8.8.9
- server has been configured
- Let's check can we ping the switch



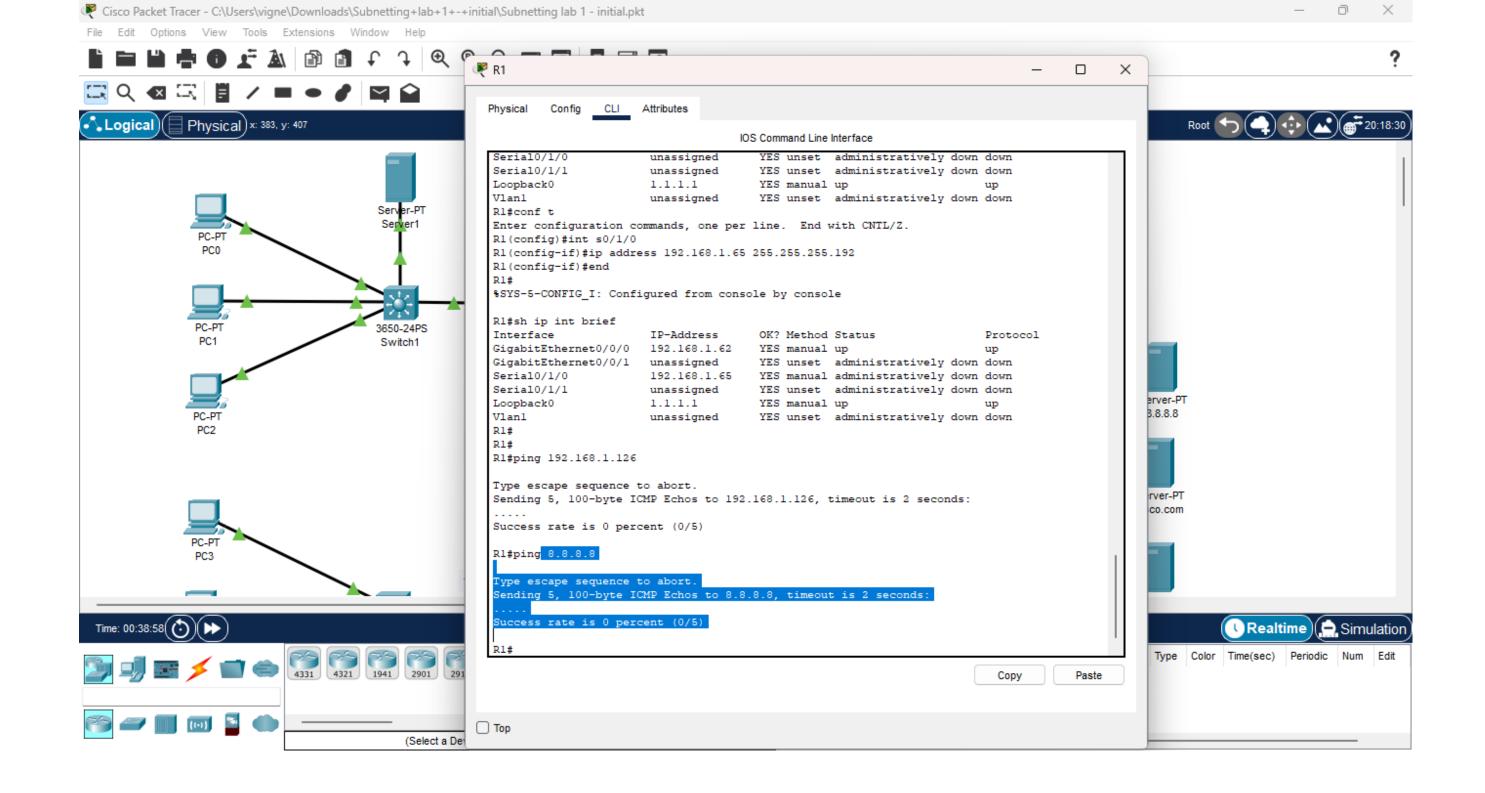
- ping is successful.
- we can ping both switch and the router



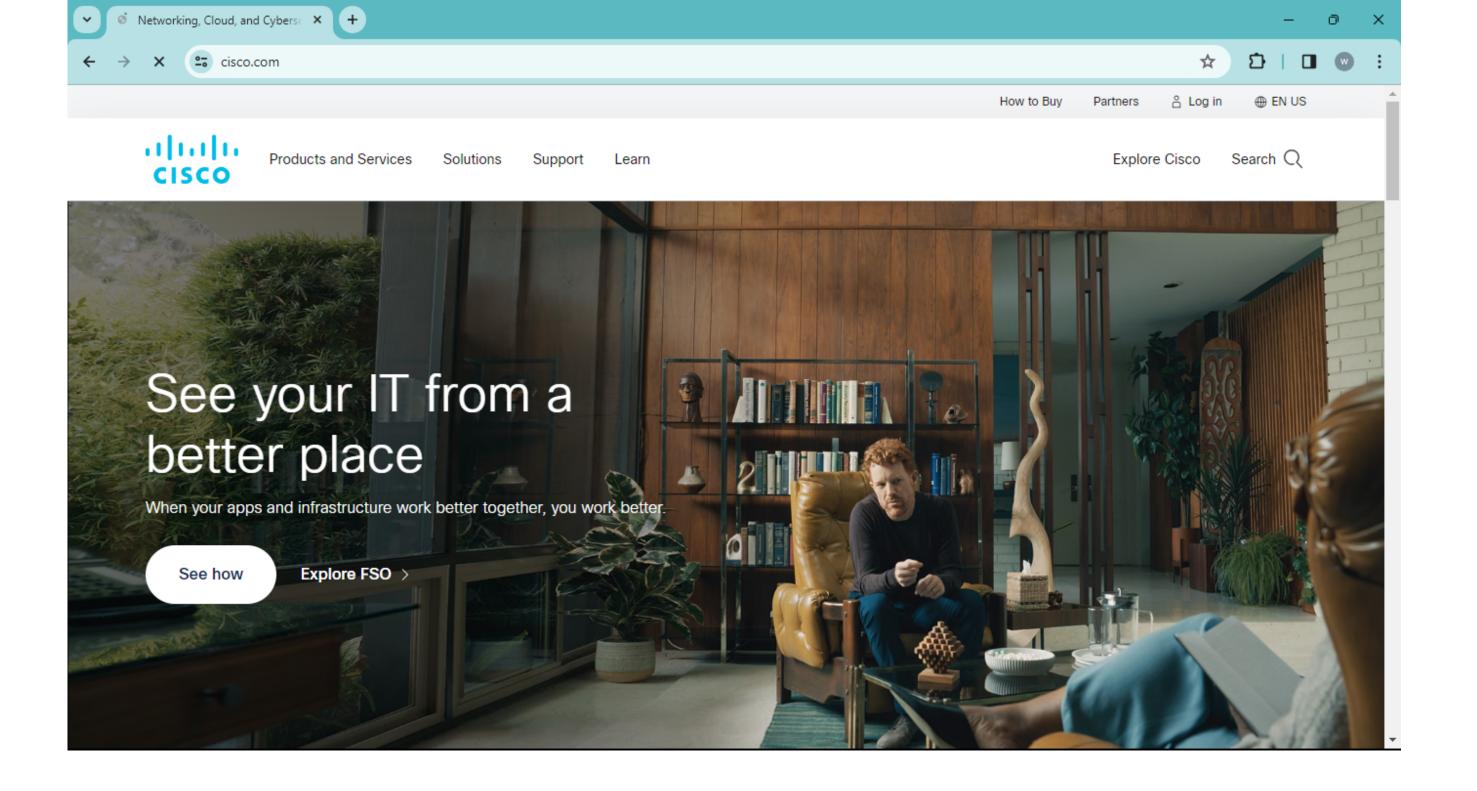
- serial interface 0/1/0 is not set
- let's configure the interface with the 1st ip address 192.168.1.65 255.255.255.192



Successfully configured the serial interface 0/1/0 with the ip 192.168.1.65



- lets check the ip connectivity between the router and the internet by pinging
- ping is successful
- router also pings DNS server



Result:

After configuring the ip address with the subnet pc successfully reached the website