# Go Subnet - Network Subnetting Design Project

## Project Overview

This project demonstrates the concept of IP subnetting and network segmentation using a practical example. It includes multiple subnet designs, IP configuration, and connectivity testing. The goal is to simulate a realistic network scenario using Cisco Packet Tracer.

Tools Used:

- Cisco Packet Tracer
- Windows OS

Objectives:

- Subnet an IP range
- Assign IPs to devices
- Connect routers and switches
- Test network connectivity

Author:

Aditi Shyam Pandit

Email: aditipandit1331@gmail.com

GitHub: https://github.com/Cyberangle002

LinkedIn: https://www.linkedin.com/in/aditipandit002

## Figure 1: Network Configuration Screenshot

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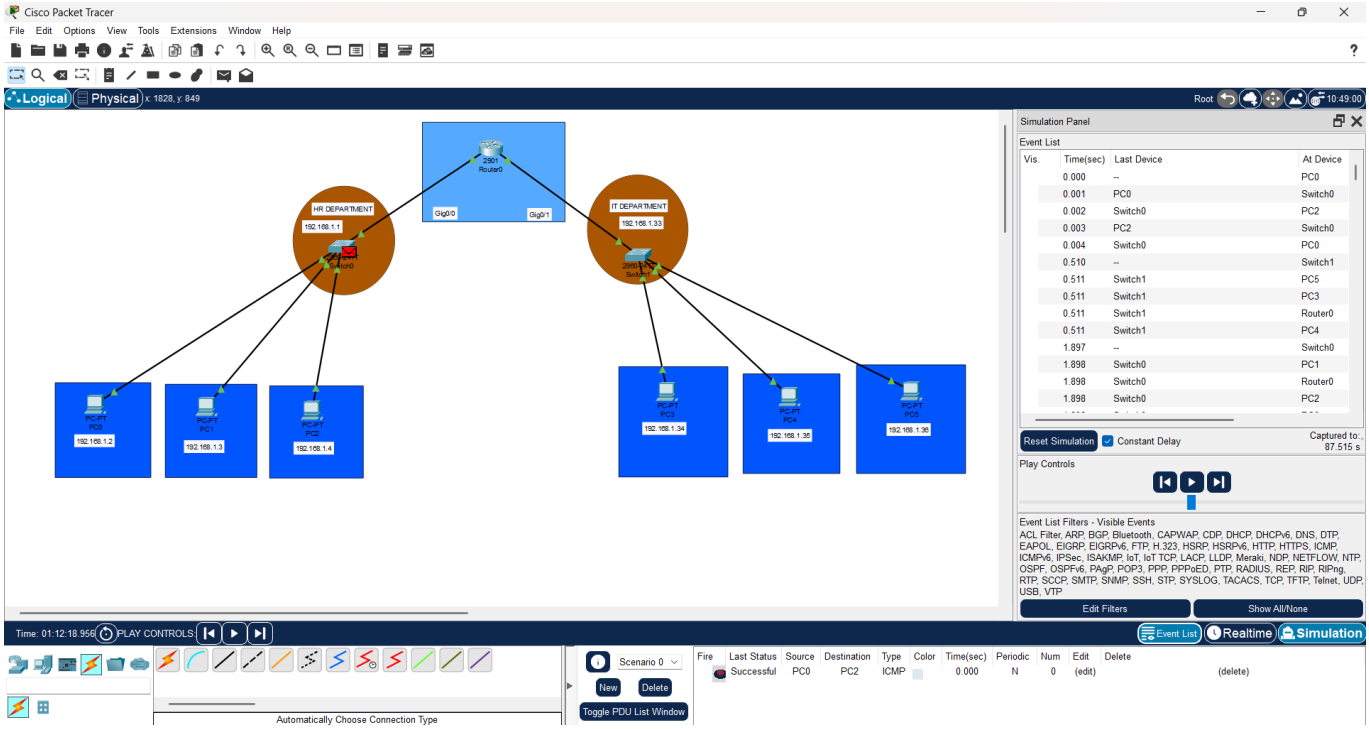
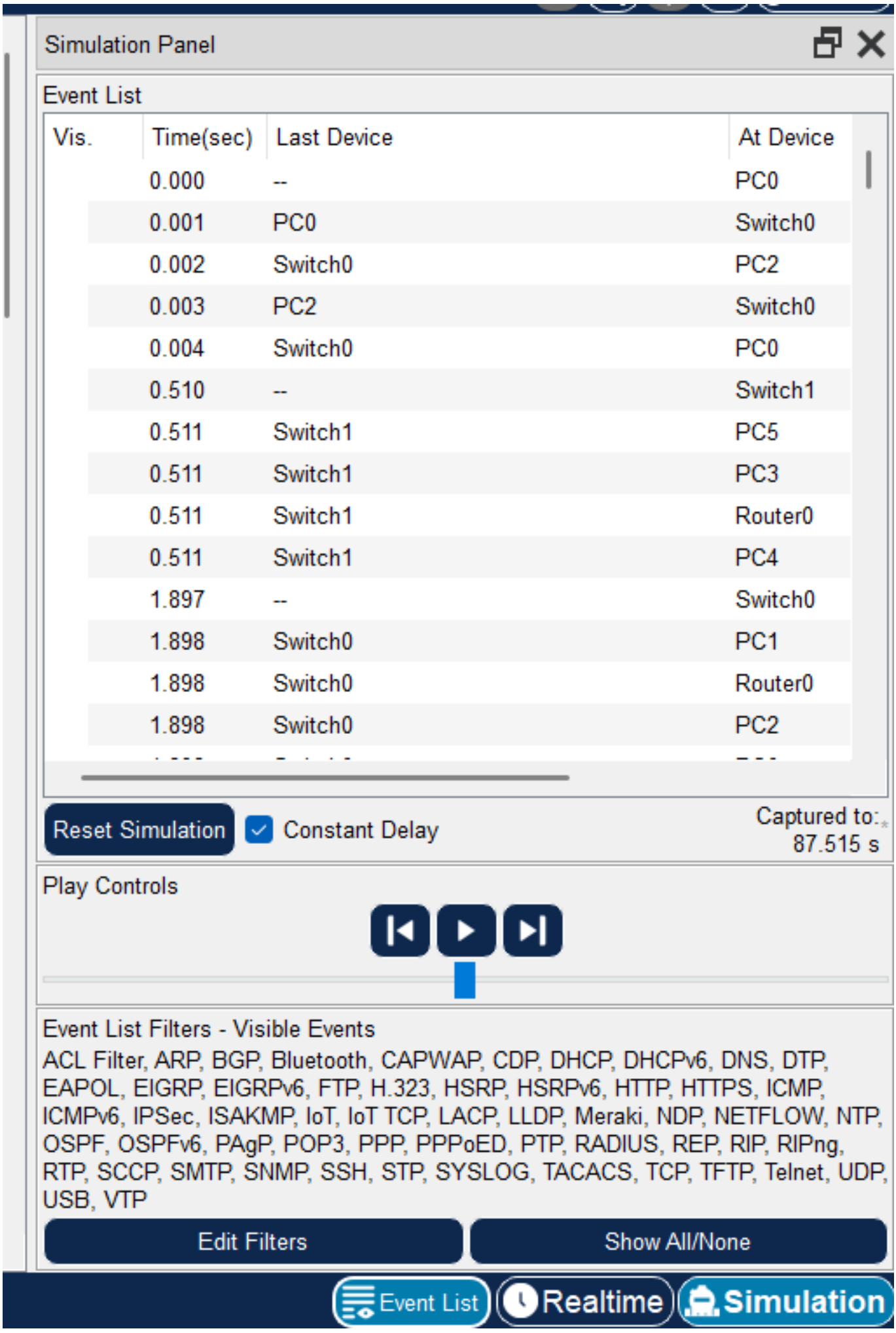
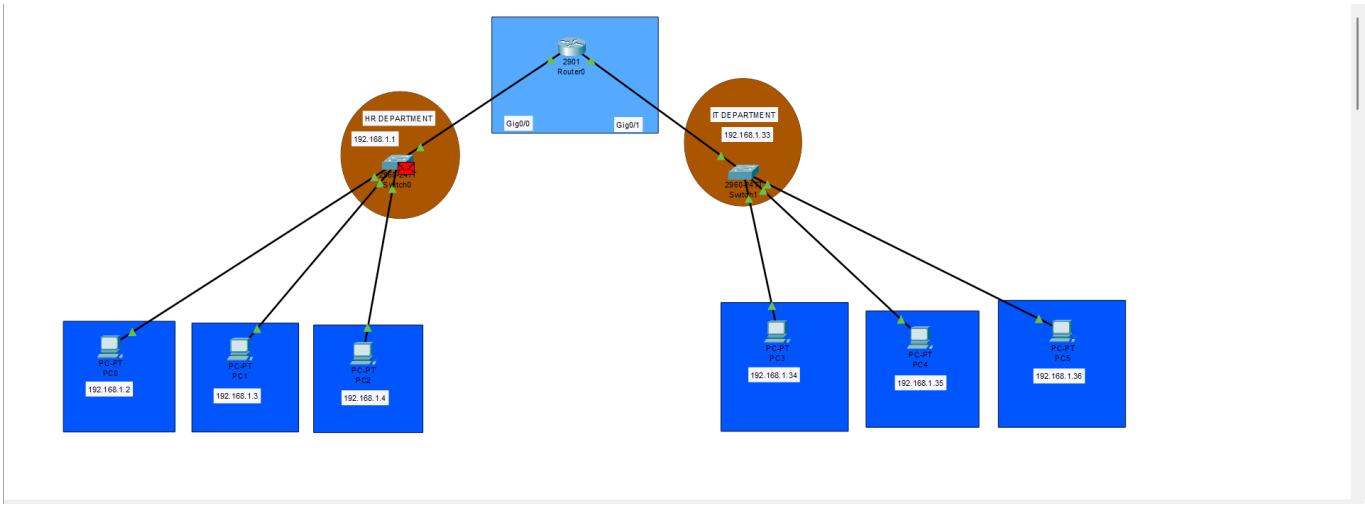
## Figure 2: Network Configuration Screenshot



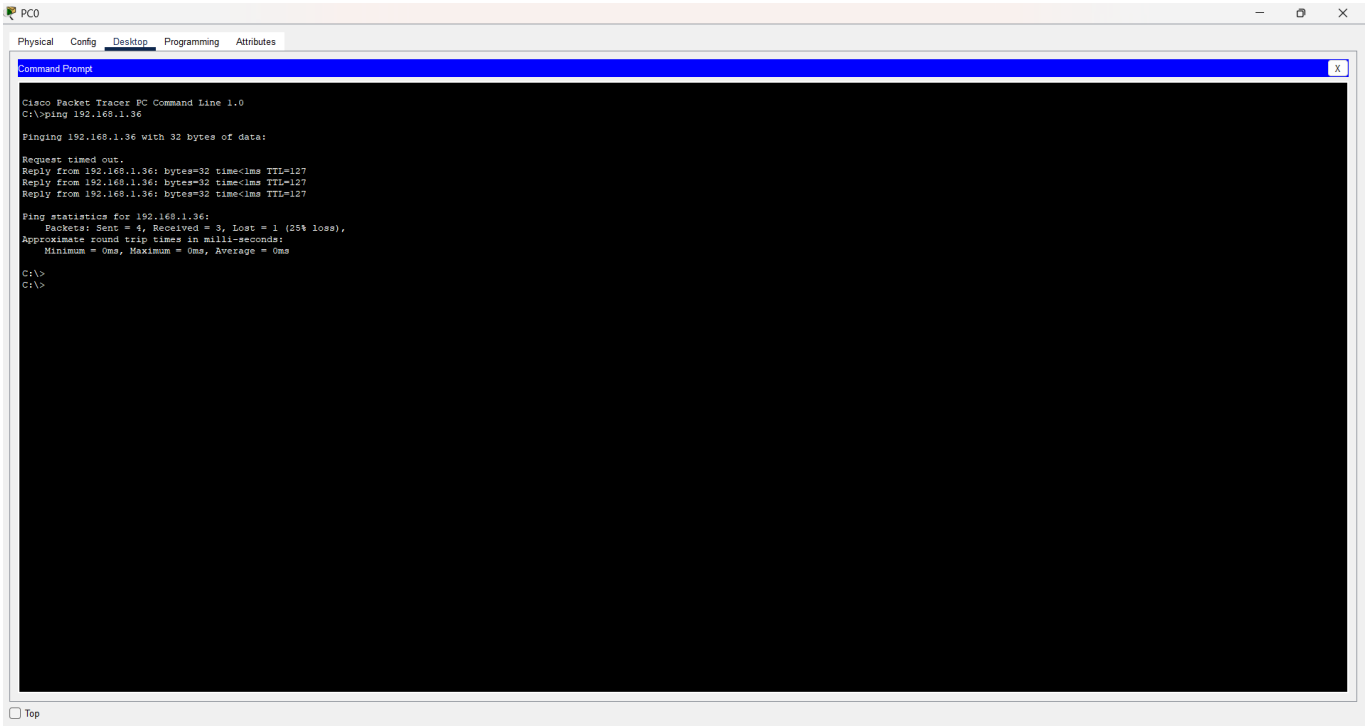

## Figure 3: Network Configuration Screenshot


Simulation Panel
Event List
Vis.
Time(sec)
Last Device
At Device
0.000 -- PC0
0.001 PC0 Switch0
0.002 Switch0 PC2
0.003 PC2 Switch0
0.004 Switch0 PC0
0.510 -- Switch1
0.511 Switch1 PC5
0.511 Switch1 PC3
0.511 Switch1 Router0
0.511 Switch1 PC4
1.897 -- Switch0
1.898 Switch0 PC1
1.898 Switch0 Router0
1.898 Switch0 PC2
Reset Simulation
Constant Delay
Captured to:
87.515 s
Play Controls
Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Event List
Realtime
Simulation

## Figure 4: Network Configuration Screenshot




## Figure 5: Network Configuration Screenshot




## Figure 6: Network Configuration Screenshot

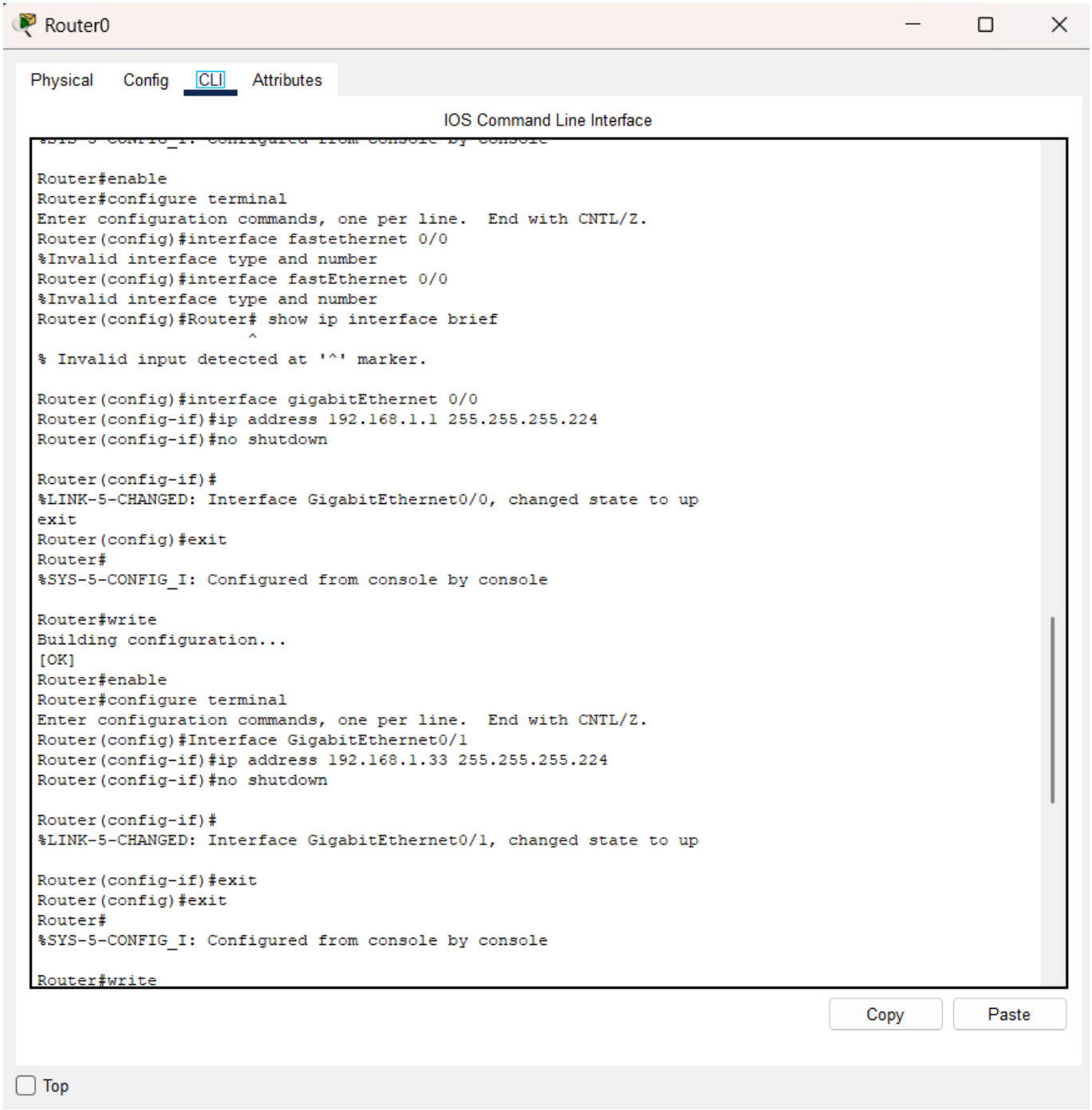



**Figure 7: Network Configuration Screenshot**

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