

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

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Figure 1: Network Configuration Screenshot

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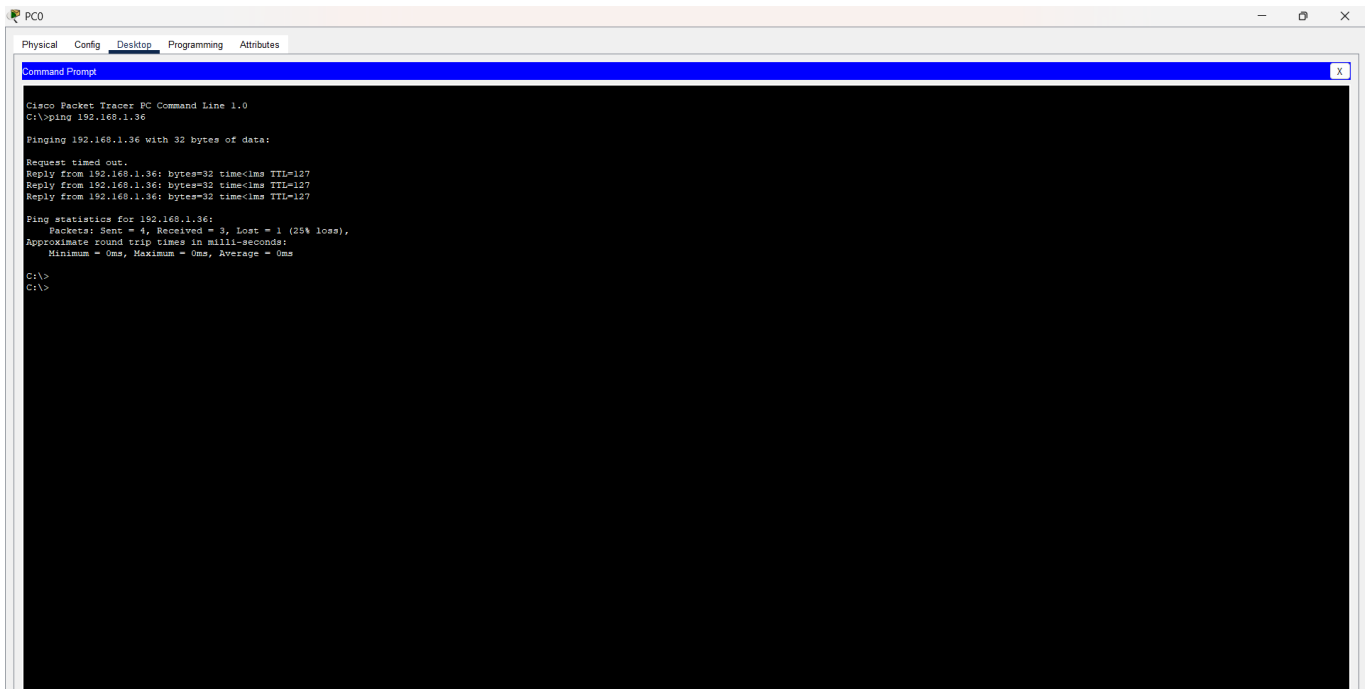


Figure 2: Network Configuration Screenshot

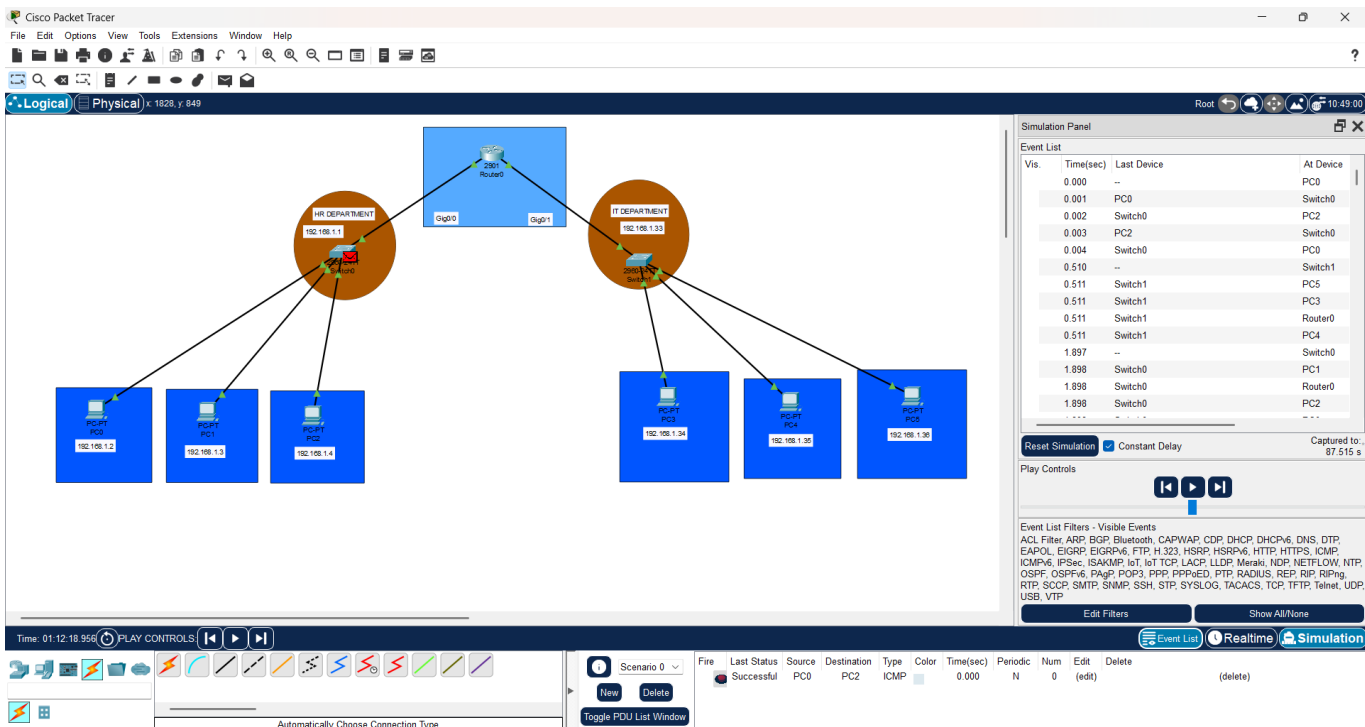



Figure 3: Network Configuration Screenshot

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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, PPPoE, 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

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Figure 4: Network Configuration Screenshot

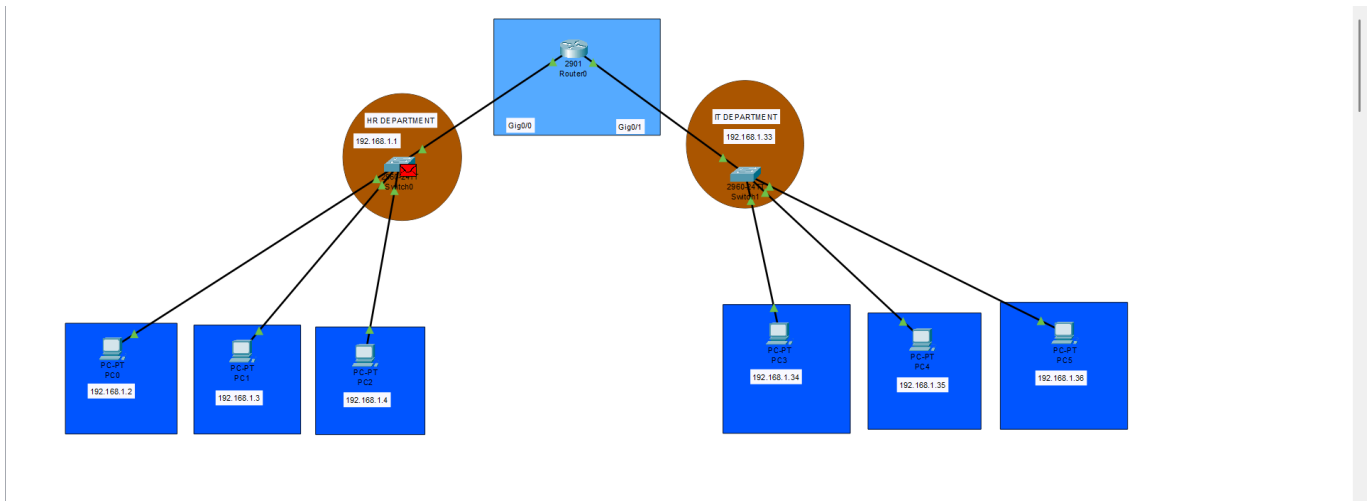


Figure 5: Network Configuration Screenshot

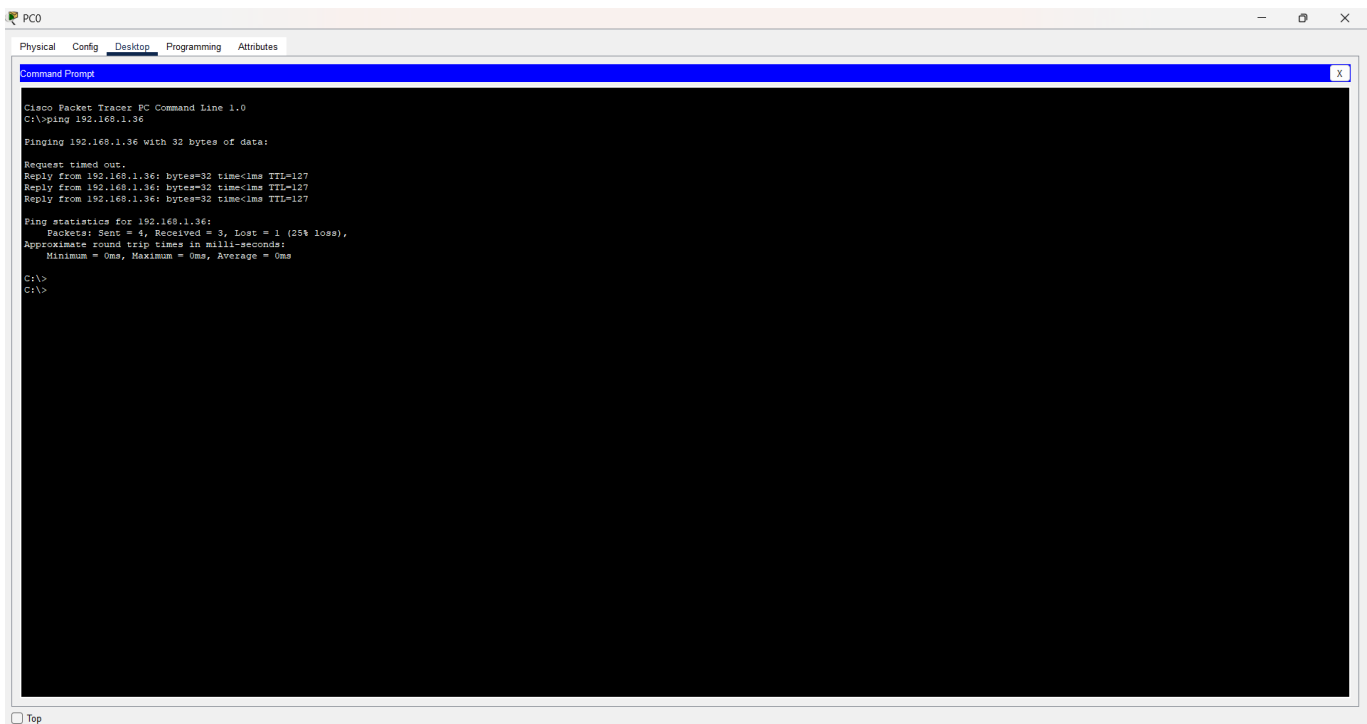


Figure 6: Network Configuration Screenshot

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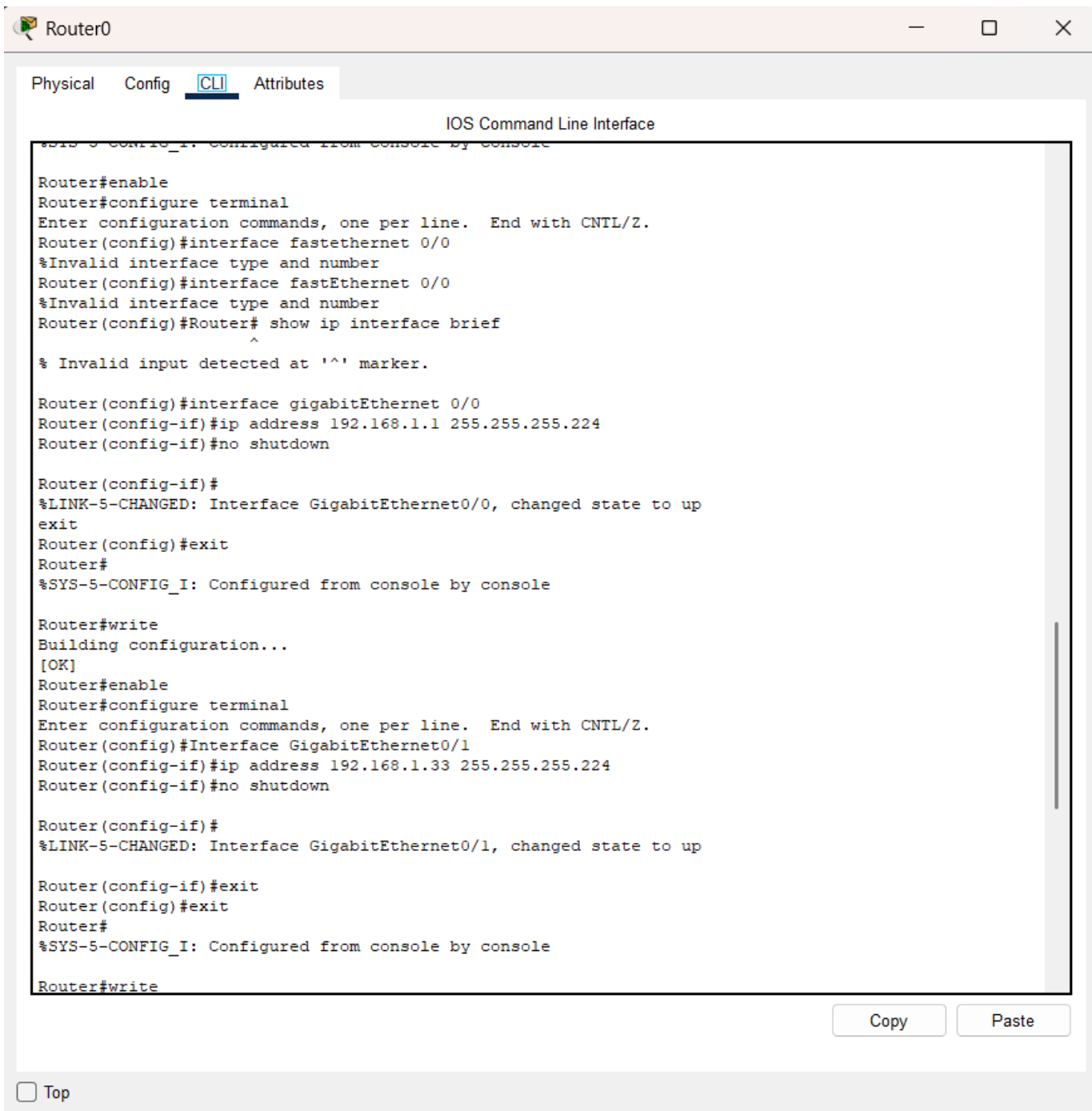


Figure 7: Network Configuration Screenshot

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PC0

Physical

Config

Desktop

Programming

Attributes

IP Configuration

X

Interface

FastEthernet0

IP Configuration

DHCP

Static

IPv4 Address

192.168.1.2

Subnet Mask

255.255.255.224

Default Gateway

192.168.1.1

DNS Server

0.0.0.0

IPv6 Configuration

Automatic

Static

IPv6 Address

/

Link Local Address

FE80::20C:85FF:FEAD:B088

Default Gateway

DNS Server

802.1X

Use 802.1X Security

Authentication

MD5

Username

Password

Top