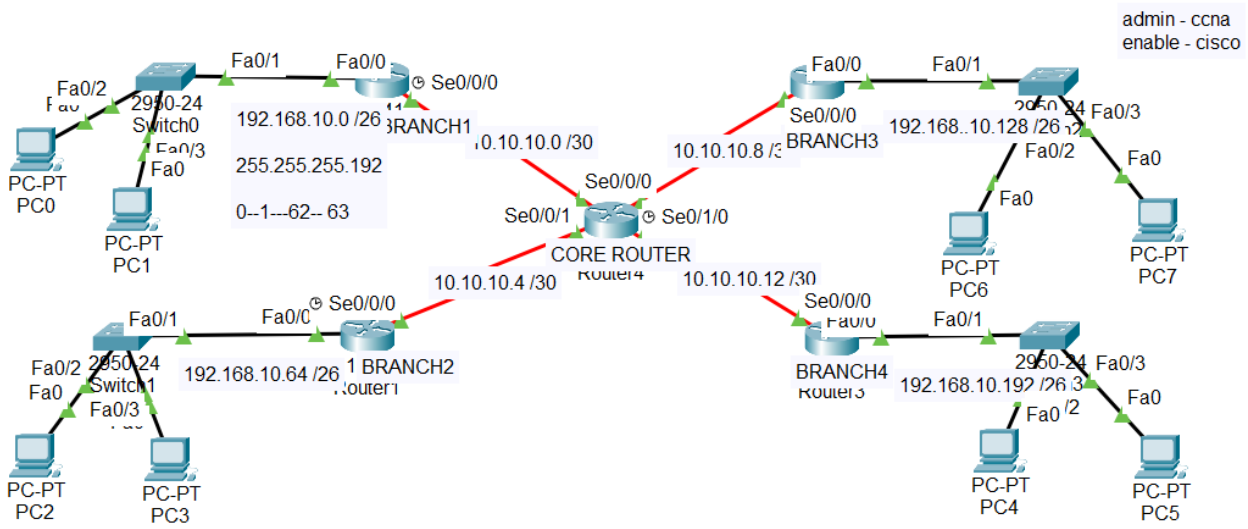
CCNA Final Project - Network Documentation

1. Project Overview

This Packet Tracer project simulates an enterprise-level network with four remote branches interconnected through a Core Router. Each branch is assigned a unique subnet using /26, and routers use EIGRP with different AS numbers. Redistribution is configured at the Core Router.

2. Network Topology Diagram



3. IP Addressing Scheme

LAN1 (BRANCH1): 192.168.10.0/26

- Router IP: 192.168.10.62
- Switch IP: 192.168.10.61

LAN2 (BRANCH2): 192.168.10.64/26

- Router IP: 192.168.10.126
- Switch IP: 192.168.10.125

LAN3 (BRANCH3): 192.168.10.128/26

- Router IP: 192.168.10.190
- Switch IP: 192.168.10.189

LAN4 (BRANCH4): 192.168.10.192/26

- Router IP: 192.168.10.254

- Switch IP: 192.168.10.253

4. WAN Connections

BRANCH1 - CORE: 10.10.10.0/30

BRANCH2 - CORE: 10.10.10.4/30

BRANCH3 - CORE: 10.10.10.8/30

BRANCH4 - CORE: 10.10.10.12/30

5. Device Configuration Standards

- Hostnames set as per topology (e.g., BRANCH1, CORE ROUTER)

- Username: admin

- User secret password: ccna

- Enable secret: cisco

- SSH configured on all routers and switches

- Login banner: 'Unauthorized access is prohibited'

- History size set to 5

- Exec-timeout (idle timeout) set to 5 minutes

- Serial links use PPP encapsulation

- Port security on all switches (1 MAC address per access port)

6. Routing Configuration

- EIGRP Routing:
  - BRANCH1: AS 10
  - BRANCH2: AS 20
  - BRANCH3: AS 30
  - BRANCH4: AS 40
- Core Router handles redistribution among EIGRP ASs.

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7. Packet Tracer File Name

Recommended filename: CCNA_FinalProject_EIGRP_Redistribution.pkt