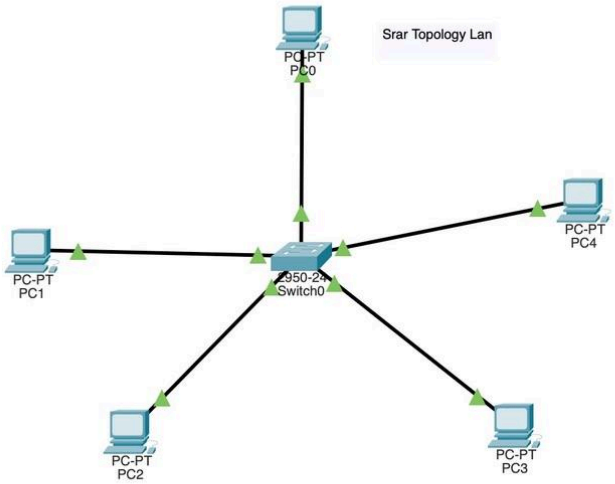
Lewis Joseph Feik
Cisco I-Intro to Networks
Week3 Lab 1
Connecting and Configuring a Small Network



Step 1: Select the correct patch leads (cables).

- *Use **Copper Straight-Through cables** for connecting:*
    - *PC ↔ Switch*
    - *Switch ↔ Router (modern routers/switches usually support auto-MDI/MDIX, but straight-through is standard).*

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- *Use **Crossover cables** only if connecting **similar devices** without auto-MDI/MDIX support (e.g., Switch ↔ Switch, Router ↔ Router, or PC ↔ PC).*

Step 2: Connect the devices.

1. *Connect PC1's FastEthernet0 to Switch Port FastEthernet0/1 with a **straight-through cable**.*
2. *Connect PC2's FastEthernet0 to Switch Port FastEthernet0/2 with a **straight-through cable**.*
3. *If a router is included, connect the Router GigabitEthernet0/0 to Switch Port FastEthernet0/24 with a **straight-through cable**.*

Step 3: Assign IP addresses to hosts.

- *On PC1:*
    - *IP Address: 192.168.1.2*
    - *Subnet Mask: 255.255.255.0*
    - *Default Gateway: 192.168.1.1*
- *On PC2:*
    - *IP Address: 192.168.1.3*
    - *Subnet Mask: 255.255.255.0*
    - *Default Gateway: 192.168.1.1*
- *On Router (if used):*
    - *GigabitEthernet0/0: IP Address: 192.168.1.1*
    - *Subnet Mask: 255.255.255.0*

Step 4: Verify connectivity with ping.

Done