

NorthRouter

- Default Gateway: 192.168.4.1/32
- X1
  - o Network: 192.168.5.0/24
  - o IP Address: 192.168.5.1/32
  - o DHCP Server
    - Network: 192.168.5.0/24
    - Starting IP Address: 192.168.5.10/32
    - Ending IP Address: 192.168.5.100/32
- X2
  - o Network: 192.168.4.0/24
  - o IP Address: 192.168.4.20/32

SouthRouter

- Default Gateway: 192.168.3.1/32
- X1
  - o Network: 192.168.4.0/24
  - o IP Address: 192.168.4.1/32
- X2
  - o Network: 192.168.3.124/30
  - o IP Address: 192.168.3.126/32

BorderRouter

- Default Gateway: 10.0.0.1/32
- X1
  - o Network: 192.168.3.0/30
  - o IP Address: 192.168.3.125/32
- X2
  - o Network: 10.0.0.0/24
  - o IP Address: 10.0.0.2/32
- X3
  - o Network: 192.168.2.0/24
  - o IP Address: 192.168.2.1/32

WAPRouter

- Default Gateway: 192.168.2.1/32
- X1
  - o Network: 192.168.2.0/24
  - o IP Address: 192.168.2.2/32
- X2
  - o Network: 192.168.0.0/24
  - o IP Address: 192.168.0.1/32
  - o DHCP Server
    - Network: 192.168.0.0/16
    - Starting IP Address: 192.168.0.10/32
    - Ending IP Address: 192.168.255.254/32

WAP1

- Network: 192.168.0.0/16
- IP Address: 192.168.0.2/32

WAP2

- Network: 192.168.0.0/16
- IP Address: 192.168.0.3/32

PC1

- Network: 192.168.5.0/24
- IP Address: 192.168.5.10/32
- Default Gateway: 192.168.5.1/32

PC2

- Network: 192.168.5.0/24
- IP Address: 192.168.5.101/32
- Default Gateway: 192.168.5.1/32

PC3

- Network: 192.168.4.0/24
- IP Address: 192.168.4.10/32
- Default Gateway: 192.168.4.1/32

PC4

- Network: 192.168.4.0/24
- IP Address: 192.168.4.11/32
- Default Gateway: 192.168.4.1/32

PC5

- Network: 192.168.0.0/16
- IP Address: 192.168.0.10/32
- Default Gateway: 192.168.0.1/32

PC6

- Network: 192.168.2.0/24
- IP Address: 192.168.2.10/32
- Default Gateway: 192.168.2.1/32

Route1

- Stored in Router: WAPRouter
- Targets Network: 192.168.0.0/24
- Gateway IP Address: 192.168.2.2/32

Route2

- Stored in Router: SouthRouter
- Targets Network: 192.168.5.0/24
- Gateway IP Address: 192.168.3.126/32

Route3

- Stored in Router: NorthRouter
- Targets Network: 192.168.5.0/24
- Gateway IP Address: 192.168.4.20/32

VPN Endpoint IP Address 1: 192.168.4.20/32

VPN Endpoint IP Address 2: 192.168.2.2/32

**A packet just arrived** at BorderRouter, destined for 192.168.0.10/32. Out of which interface will it leave BorderRouter: X2

One of these PCs DEFINITELY has a **statistically assigned IP address**. Some of them MAY have a DHCP-assigned address. Which one PC DEFINITELY has a statically assigned IP address: PC2