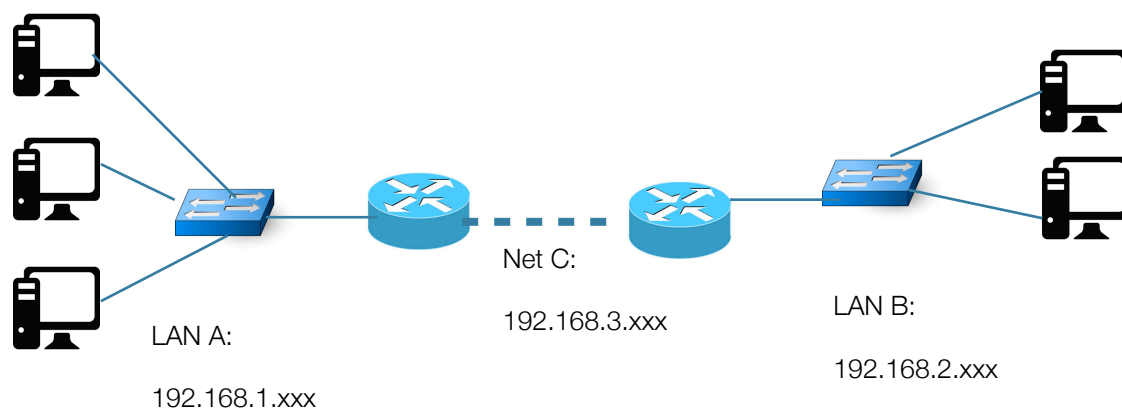# Packet Tracer - Static Routes

NETWORK DESIGN

Create and configure the proposed network design on Packet Tracer. Each client in the network should be able to send a PING message to every other client in the network.

Net C:

192.168.3.xxx

LAN A:

192.168.1.xxx

LAN B:

192.168.2.xxx

- 2 routers

- 2 switches

- Lan A - 3 clients - IP address 192.168.1.xxx, IP MASK 255.255.255.0

- Lab B - 2 clients - IP address 192.168.2.xxx, IP Mask 255.255.255.0

- Net C - 0 clients….. But 2 interfaces - IP address 192.168.3.xxx, IP Mask 255.255.255.0

STEPS

- Set up the Network with 2 switches, 2 routers, and 5 computers on your workspace.

- Give each of the Computers a correct IP address.

- Try sending messages to/from all of the Computers/Interfaces on the network - What happens?

- Give each of the Router Interfaces an IP address.

- Give each of the Computers a default Gateway.

- Try sending messages to/from all of the Computers/Interfaces on the network - What happens?

- Add the **static routes:**

  - Look at R1's routing table.

  - Add a route, sending packets for LAN B to R2's interface that is connected to R1.

  - Recheck the routing table.

  - Look at R2's routing table.

  - Add a route, sending packets for LAN A to R1's interface that is connected to R2.

  - Recheck the routing table.

  - Try sending messages to/from all of the Computers/Interfaces on the network - What happens?