

Problem Overview

- **Problem Title:** Net-B can't communicate with Net-A
- **Date/Time:** 07/2025
- **Device Name:** Net-B-Router & Network-A-Router
- **Device Type/OS:** TP-Link Router & Verizon Router

Problem Details

- **Symptoms:** Comp-B can't communicate with Comp-A: Destination host unreachable

```
Pinging 192.168.1.152 with 32 bytes of data:  
Reply from 192.168.0.1: Destination host unreachable.  
Reply from 192.168.0.1: Destination host unreachable.  
Reply from 192.168.0.1: Destination host unreachable.  
Reply from 192.168.0.1: Destination host unreachable.  
  
Ping statistics for 192.168.1.152:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

- **Net-B-Router static route:**

Static Route							
Policy Routing							
Routing Table							
RIP							
OSPF							
Static Route							
<input checked="" type="checkbox"/>	ID	Name	Destination IP	Subnet Mask	Next Hop	Interface	Metric
<input checked="" type="checkbox"/>	1	winlap	192.168.1.0	255.255.255.0	192.168.0.1	LAN	1

no good

- **Impact:** Devices on Net-B cant communicate with devices on Net-A

Troubleshooting & Solution

- **Troubleshooting Actions:**
 1. I checked Net-B-Router & Core-Router routing table
- **Key Findings/Error Codes:**
 1. The Next hop on the Net-B-Router router was incorrect
 2. I forgot to configure a static route on the Network-A-Router router
- **Date/Time Resolved:** July 2025
- **Resolved By:** daysean Mensah
- **Solution Implemented:**
 1. I changed the next hop on the Net-B-Router router to 192.168.1.1[the verizon router IP address, which is the gateway of Net-A]

2. A configured a static route on the **Core-Router** router to **Net-B**

Routing Table

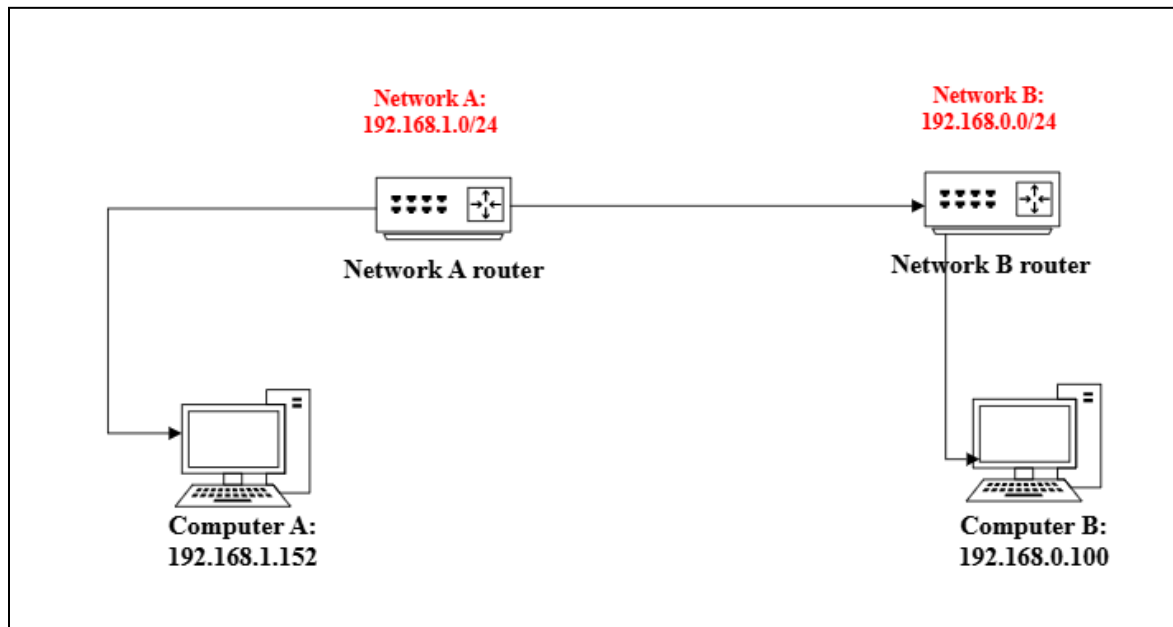
Name	Destination	Gateway	Netmask	Metric	Status
Network (Home/Office)	192.168.0.0	192.168.1.175	255.255.255.0	1	Applied

- Verification:
 1. I turned of **windows defender** to see if it was it was **Blocking ICMP(ping)** request
 2. I successfully pinged **Comp-A** from **Comp-B**

Notes

- **Lessons Learned/Preventative Measures:** always check the configuration & check firewalls and the devices(router & computer etc)

Network diagram:



Key

Network-A = 192.168.1.1/24

Network-B = 192.168.0.1/24

Verizon Router= 192.168.1.1

Abbreviation [Net-A]

Abbreviation [Net-B]

Network-A-Router

TP-Link ER605 = 192.168.0.1
Computer-A = 192.168.1.152
Computer-B = 192.168.0.100

Net-B-Router
Abbreviation [Comp-A]
Abbreviation [Comp-B]