

Project 4: Simple Router (layer 3)

Yongun Seong 2017-19937

For this assignment, I implemented a L3 router that routes between four ports.

1. ARP

While we cannot directly query the router's ARP table, we can see that the client has correctly resolved the router's MAC address.

[illegible]

Figure 1: ARP

2. ICMP

ICMP messages are correctly sent from the client to the server.

3. IP

ICMP time exceeded messages are correctly sent from the router to the client.

TCP connections are successful:

The router correctly returns ICMP port unreachable messages for closed ports:

Traceroute works:

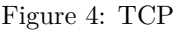


Figure 6: traceroute