

The central point of the project was the creation of the Traceroute function. At first, the hope was to use Wireshark to help build the topology, However, further development made the use of Wireshark unnecessary.

Instead, the focus became building the Traceroute function to be able to connect and make a record of the various IP addresses it 'pinged'. One possible method considered was to have the program transcribe the IP address to a text file, or to have it stored in a cloud such as Mango DB.

For the diagram, what was considered was:

- Endpoints:
 - Computers, Printers, Devices
- Firewalls
- Routers
- Switches
- Different Layers
- Internal vs. External Layout

For Hop Division We needed to check everything in the range (10.0.0.1 - 10.255.255.249)
10.0.0.1

We would come to the conclusion to focus on looking 138.238 (10.all)

To store the data, we had it be that the address would be stored on MongoDB.

Once the database and traceroute was established, it was decided that these group members would explore these ranges: