

`main_traceroute.py`: Contains the traceroute code/program.

This Python script contains the code for the traceroute program. It uses raw sockets to send ICMP and UDP packets to the target IP address, and listens for responses. The TTL (Time to Live) value is incremented on each iteration, until the destination is reached or the maximum number of hops is exceeded. The output of the program shows the TTL value, the IP address of the hop, and the round-trip time (RTT) in milliseconds.

`Pymongo_get_database.py`: Connects `traceroute_traceroute` to mongodb database, and allows the user to store the IP address data.

This Python script connects to a MongoDB database and returns a reference to the database. It uses the `pymongo` library to connect to the database and perform operations on the data.

`Traceroute_with_backup.py`: works similar to `main_traceroute`, but saves ips to mongodb periodically versus at the end (also writes to a txt file...called `last_seen.txt` to store the last completed ip address in case of program failure) and also allows keyboard interruption with `save`