499 Weekly Report

October 2ⁿᵈ
Hunter Hottest Sites
Eli's Work

From Last Week

Code:
☒ Convert public IPs to hostnames to better identify websites.
☒ Create function to organize packets based on time.
☐ Figure out a way to export this data, so it is accessible while PI is running.

Project:
☐ Finalize script and leave it running for a day to find out what type of results we get.
☐ ~~Talk to Library staff (Leon)~~
☐ Learn about the subnets at Hunter and find out on which subnet we get the most traffic from students.

Added Mid Week

Code:
☒ Exclude Hunter network addresses (loopback packets, broadcast, internal comms.)
☒ Add packet length function/feature (get the total size of incoming/outgoing data)
☒ Comment code, commit to GIT, rename confusing functions.
☐ Strip the site name to just the top level domains, not the full name, example:
  (go from 'ash2-accesspoint-a18.ash2.spotify.com' to 'spotify.com')

Project:
☒ Brush up on some GIT concepts (push, status, commit, add, clone)
☐ Learn any database (most likely postgreSQL) and figure out whether it will be better to populate data to database rather than exporting to a csv file. This will allow live feeds.

For Next Week

Code:
☐ Strip the site name to just the top level domains, not the full name, example:
  (go from 'ash2-accesspoint-a18.ash2.spotify.com' to 'spotify.com')
☐ Start putting packets in their corresponding time buckets, and make sure it works.
☐ Run the capturing function in a thread, that way data can be written on a different thread and If the capture fails or is stopped, the data remains.
☐ Figure out a way to export this data, so it is accessible while PI is running. (csv/hosted DB)

Project:
☐ Learn about the subnets at Hunter and find out on which subnet we get the most traffic from students.
☐ Learn any database (most likely postgreSQL) and figure out whether it will be better to populate data to a live database rather than exporting to a csv file. This will allow live feeds.