Monday

Put together a plan

Waited around for data

Did a lot of research about the topic

This is a commonly known problem. There are multiple organizations that sell products to help prevent others from spying on network traffic. Most of them send out a uniform stream of packets. This prevents people from noticing an increase in packet generation. This is not exactly what we are looking for. We are looking for associating two different devices according to similar network traffic.

Our hypothesis is that devices that visit the same website are associated. The idea is that people working together would be visiting the same websites. Groups would have some form of repository set up that they are visiting. They would also have some form of communication going between them. The problem with this is that most people have multiple devices, and some of those devices generate distracting noise.

We started working on a program that will sort the packet information so that we can better determine patterns. The program will look for all the animals that are visiting the same websites. It will output an animal name and a list of all the animals that visited the same websites as it along with the number of times those animals visited the same website.

Tuesday

Finished sorting program

It is very complicated. We had to use a nested loop with four levels of iteration. It runs a two thousand line file in about five seconds. We have noticed that Alligator and Elephant appear to be associated, and cat goes everywhere.

We think that elephant and alligator might be us. They are heavily associated and there are only two of them. Alligator was not very active today, and I did not use my computer during the period that the collection took place. Elephant was still as active today as yesterday. Elephant is also associated with Dog, Cat, Lizard, and Opossum, so Elephant could be another group. Also, Bethany was not here today, so that could account for an active user that is not active any more.

Thursday

Found graphing software

Figured out how to weight edges

Graphs turned out to be useful

Preliminary evaluation

6 groups scored over 75%

2 groups scored about 50%

2 groups scored nope

1 group scored ?????

Narrowed down which groups did what