Traffic Visualization Guide

December 27, 2010

1 Introduction

This document shows how to run the codes related to our traffic visualization guide. There are three part of code: python code dealing with network traffic, firefox extension for key logger, and flash code focusing on data visualization.

2 Python Code

Two python code are used in this project: *sniff.py* and *datacombination.py*. *sniff.py* intercept all http traffic and store in the file that you input while run the code. The command to run it is as follows.

```
sudo python sniff.py sniff
```

sniff.py is the python code that we used to sniff down all the http traffic. You can find the code on the desktop of the virtual machine. *sniff* is the file where we store the result. You can use other name instead.

datacombination.py combine two data stream together and generate a xml file with current date as its name . We use *sniff* and *extstore.dat* in the same directory as default files to combine.

3 Firefox extension

We use tlogger as our firefox extension to logger all the keys input in browser. The data that stores log information is stored as name *extstore.dat*. You have to install and start *tlogger* to capture all the keys. We already installed *tlogger* in our virtual machine.

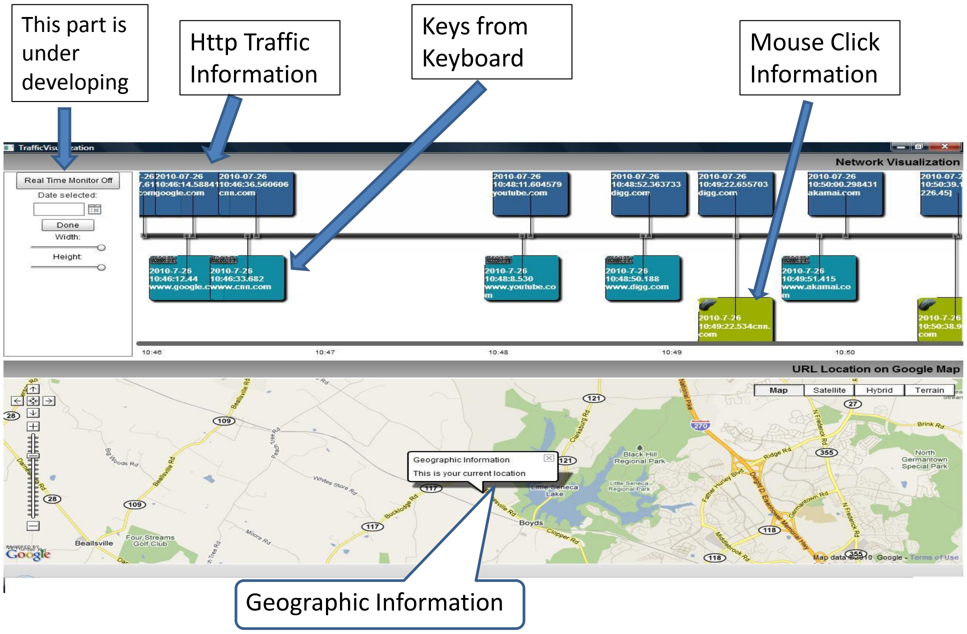
This part is under developing
Http Traffic Information
Keys from Keyboard
Mouse Click Information
TrafficVisualization
Network Visualization
Real Time Monitor Off
Date selected:
Done
Width:
Height:
2010-07-26 10:46:14.5884 google.com
2010-07-26 10:46:36.560606 cnn.com
2010-07-26 10:48:11.604579 youtube.com
2010-07-26 10:48:52.363733 digg.com
2010-07-26 10:49:22.655703 digg.com
2010-07-26 10:50:00.298431 akamai.com
2010-7-26 10:46:12.44 www.google.com
2010-7-26 10:46:33.682 www.cnn.com
2010-7-26 10:48:8.530 www.youtube.com
2010-7-26 10:48:50.188 www.digg.com
2010-7-26 10:49:51.415 www.akamai.com
2010-7-26 10:49:22.534cnn.com
10:46
10:47
10:48
10:49
10:50
URL Location on Google Map
Map
Satellite
Hybrid
Terrain
Geographic Information
This is your current location
Geographic Information

Figure 1: Main Window

4 Flash Code

We use flash to demonstrate the flow of two data stream: user's input and network traffic. Currently, the flash is static, you have to specify name of the file in mark *¡xml¿* in the main files *TrafficVisualization.mxml*. Figure 1 shows the main window of the visualizer. You can find a usable air application on the desktop of our virtual machine.