

Netflower: Analyse a network interface and show live bandwidth usage for every IP

```

sword@kate-pc:~/git/netflower$ sudo python3 netflower/netflower.py -i wlp2s0
[sudo] password for sword:

Total: 0.00Mb, 0.00Mb up, 0.00Mb down
[ 2018-01-16 19:46:31 - 2018-01-16 19:46:31 ]

udp => 192.168.1.92 -> 208.67.222.222 : Total: 0.00Mb, 0.00Mb up, 0.00Mb down
tcp => 192.168.1.92 -> 192.30.253.112 : Total: 0.00Mb, 0.00Mb up, 0.00Mb down
tcp => 192.168.1.92 -> 8.8.8.8 : Total: 0.00Mb, 0.00Mb up, 0.00Mb down
tcp => 192.168.1.92 -> 208.67.220.220 : Total: 0.00Mb, 0.00Mb up, 0.00Mb down
tcp => 192.168.1.92 -> 192.30.253.113 : Total: 0.06Mb, 0.06Mb up, 0.00Mb down
tcp => 151.101.2.49 -> 192.168.1.92 : Total: 0.00Mb, 0.00Mb up, 0.00Mb down

Total: 0.06Mb, 0.06Mb up, 0.00Mb down
[ 2018-01-16 19:46:31 - 2018-01-16 19:46:36 ]

```

Figure 1: Demo

Features

- Analyse bandwidth usage for network interface
- Split in TCP and UDP
- Send data to logstash (-l)

Prerequisites

To run Netflower, you'll need the following: - git - python3 - pip3

Install

Install dependencies from requirements.txt

```
git clone [this repository]
pip3 install -r requirements.txt
```

Usage

```
usage: netflower.py [-h] -i INTERFACE [-l LOGSTASH_CONFIG]
```

optional arguments:

```
-h, --help          show this help message and exit
-i INTERFACE, --interface INTERFACE
                    Interface to listen on
-l LOGSTASH_CONFIG, --logstash_config LOGSTASH_CONFIG
                    Logstash configuration host/port in JSON format,
                    example: {"host":"localhost","port":5000}
```

Example

```
sudo python3 netflower/netflower.py -i wlp2s0 # display bandwidth usage for wlp2s0 interface
```

License

MIT license