ReadMe

This program is designed in Python environment. For the capturing stream, and then output will be stored in Influxdb directly and monitor in Grafana.

Installation:

1.First you need to clone DPMI\_Utils from "https://github.com/DPMI/libcap\_utils.git"

2. See Installing for details.

autoreconf -si

mkdir build; cd build

../configure

make

sudo make install

3. Next you need to clone MP smoke from “https://github.com/DPMI/mp.git”

autoreconf -si # if from git repo

./configure [--with-dag=PREFIX] [--with-pcap] [--without-raw]

make

make install

wget https://s3-us-west-2.amazonaws.com/grafana-releases/release/grafana\_4.4.3\_amd64.deb sudo apt-get install -y adduser libfontconfig sudo dpkg -i grafana\_4.4.3\_amd64.deb

4. Clone Marcd from “<https://github.com/DPMI/marcd.git>”

autoreconf --install

1. mkdir build

2. ../configure [--prefix /path/to/prefix]

3. make && make install

5.install Grafana as shown bellow

wget <https://s3-us-west-2.amazonaws.com/grafana>-releases/release/grafana\_4.4.3\_amd64.deb

sudo apt-get install -y adduser libfontconfig

sudo dpkg -i grafana\_4.4.3\_amd64.deb

6.install influxdb as shown bellow

curl -sL <https://repos.influxdata.com/influxdb.key> | sudo apt-key add -

source /etc/lsb-release

echo "deb <https://repos.influxdata.com/${DISTRIB_ID,,}> ${DISTRIB\_CODENAME} stable" | sudo tee /etc/apt/sources.list.d/influxdb.list

sudo apt-get update && sudo apt-get install influxdb

7.install Flask as shown bellow

sudo pip install Flask

Usage:

This tool is designed for calculating

1. Consumer-Bitrates.

These values are plotted in Grafana by grouping technique.

RestApi manual:

we are provided different facilities to analyse stream statistics.

1.Run stream

curl <http://localhost:5000/run/ethvalue_stream1_stream_2> ....

2.Change stream

curl <http://localhost:5000/change/ethvalue_stream1_stream_2> ....

3.Stop stream

curl http://localhost:5000/stop

4.Show active streams

curl <http://localhost:5000/showstream>

5.Add stream

curl <http://localhost:5000/add/ethvalue_stream1_stream_2> ....

6.Delete stream

curl <http://localhost:5000/delete/etvalue_stream1_stream_2> ....

Run mp(Measuring point) using ./mp --local -v -i eth0 -s eth1 -o 01::01

Next place the api.py file in consumer-bitrate folder and run Python api.py