iftop Live bandwidth by host

CONCEPTS

iftop needs raw packet capture: run it with sudo and name the interface with -i, or it picks the first one.

iftop -nNP who talks
Sort 1-3 2s / 10s / 40s
Filter l or -f
Capture tcpdump
Reading a busy link

The three columns are average rates over 2, 10 and 40 seconds; the bottom bar shows cumulative, peak and rate totals.

Only IP traffic is counted: -f is wrapped as (filter) and ip. Monitor only networks you are authorised to.

DISPLAY

- r Toggle hostname resolution
- p Toggle port display
- S Toggle source port
- D Toggle destination port
- t Cycle line display modes
- P Pause the display
- o Freeze current ordering
- j / k Scroll the host list

SORTING AND GROUPING

- s Aggregate by source host
- d Aggregate by destination host
- 1 / 2 / 3
  Sort by column 1, 2 or 3
- < Sort by source name
- > Sort by destination name
- l Filter hostnames by regex
- f Edit the capture filter live
- h / ? Show built-in help

COMMAND LINE

- iftop › -i › *<if>*
  Listen on an interface
- iftop › -n
  No hostname lookups
- iftop › -N
  No port-to-service names
- iftop › -P Show ports
- iftop › -B
  Rates in bytes, not bits
- iftop › -f › "<filter>"
  Capture filter (pcap syntax)
- iftop › -F › *<net/mask>*
  Measure direction relative to a network

COMMAND LINE (cont.)

- iftop › -G › *<net6/mask>*
  Same, for IPv6
- iftop › -p Promiscuous mode
- iftop › -b No bar graphs
- iftop › -m › *<limit>*
  Bar scale limit (K, M, G)
- iftop › -l Count link-local IPv6
- iftop › -c › *<file>*
  Use another config file
- iftop › -t
  Plain text output, no ncurses
- iftop › -h Print usage

RECIPES

Who is eating the uplink

```
sudo iftop -i eth0 -nNP -B
# press s or d to group by host, 2
to sort by 10s
```

One host or one port

```
sudo iftop -i eth0 -f "host <ip>"
sudo iftop -i eth0 -f "port 443"
```

Separate in from out on a LAN

```
sudo iftop -i eth0 -F
192.168.1.0/24
# direction is now relative to
that network
```