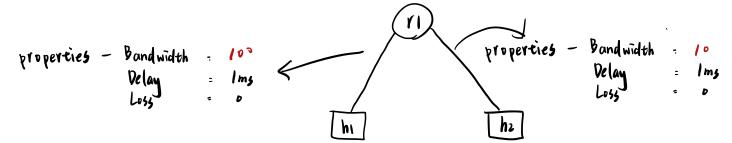
圖开3化工具。 从速建立網路的拓撲 miniedit

cd /home /user/mininet/examples

python miniedit.py

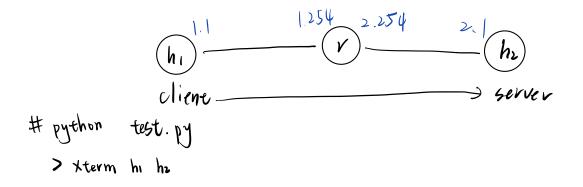
可以設定頻寬、遺失率、延遲



File - Export Level 2 Script - Save

gedit test1.py

軟件定數級路



朝能

目的: 量测效能化較,支援 top, udp 傳輸

apt install iperf

tep

hz server sec hi client hz-ip 傳送時間 # iperf -5 - ル 1 # iperf -C 192.168.2.1 -t 10

```
h2 udp port 5001
# iperf -5 - \(\hat{\lambda}\) 1 - \(\mu\) - \(\phi\) 5555
                                                  # iperf -c 192.168.2.1 -u -b 100M -t 100
                                                   hı
                                                   # iperf -c 192.168.2.1 -u -b 200M -t 100 -p
  # Cp 3.py 3-1.py
  # gedit 3-1.py
      hir = 1'bw': 100, delay = 1ms', 1055': 0)
      net addLink (hi, r, cls = TCLink, #hirl
har = 1'bw'=100, 'delay'='ims', 'loss'=0')
       net addlink (hz, r, cls=TCLink, ** hzrl
   # python 3-1.py
     > xterm hi hz
      h2 h1
# iperf -5 - \(\hat{\lambda}\) 1 # iperf -C 192.168.2.1 -t 10
     hz
           | tee vesult - 臺看 - 邊存
      # iperf -5 -1 1 > result 把結果存放在檔案裡
     # iperf -c 192.168.2.1 -t 10
      hz
      # cat result
      mininet
      # cat tcp_result
```

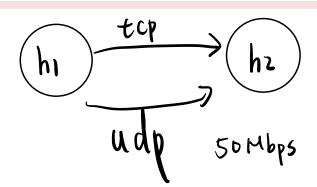
UDP

iperf -5 - n 1 -u

```
# gnuplot 编 top_result 的 thespoints

> plot "top_result" with linespoints
   標示X軸為time
  > set xlabel "time (sec)"
  > set ytics 0.10,100 間距為10
  > set xrange [ 0:15]
  > set xtic5 0, 1, 15 13 EE & 1
  > set title "TCP Flow Trough put"
  > replot
 变成围槽
  > set terminal gif
> set output "a.gif"
  > replot
```

宇衛



hz
iperf -5 - \(\hat{\partial}\) 1 -p 5555 | tee tcp # iperf - c 192.168. 2.1 -t 50 -p 5555

hz
iperf -5 - \(\hat{\partial}\) 1 -u -p 6666 | tee udp # iperf - c 192.168. 2.1 -u -b 504 -t 30 -p 6666

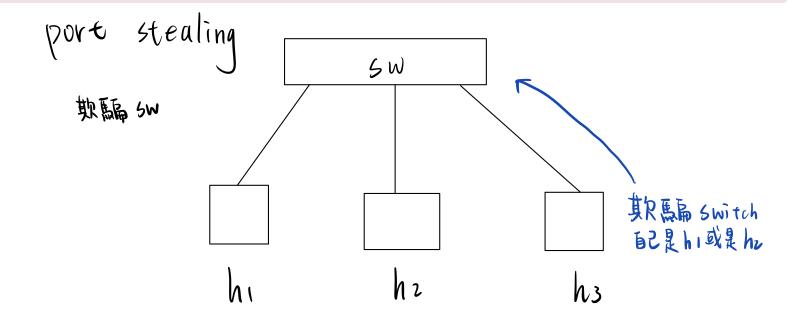
/mininet

gedit plot.ple

plot "tcp_result" with linespoints, "udp_result" with linespoints
replot

gunplot plot, plt

open top-udp.gif



192.168.10.2 => Add to Target 2

h3-Wireshark 聽到了

hi # arp -5 192.168.10.2 00:00:00:00:02 # arp -1 # arp -5 192.168.10.1 00:00:00:00:01 # arp -1 # ping 192.168.10.1

Ttercap
port stealing - shiff remote connections

防靶

5W可以帮定卡號 勘证不明卡號

下载 Ettercap

```
# wget https

## tar vfxs ettercap-0.8.3.tar.gz

# mkdir build

# cd build # cp /usr/local/bin/ettercap /usr/local/bi

# cmake .../

# make install

# ettercap - G
```