



Zachodniopomorski  
Uniwersytet Techniczny  
w Szczecinie

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Network Systems Administration

Report 3

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## 1- IPref

### A- Method

IPref was installed on the Windows10 machine. Localhost network traffic was examined through server mode.

### B- Screenshots

```
Command Prompt - iperf3.exe -s
C:\Users\Sanal Krlk>cd /iperf3
C:\iperf3>iperf3.exe -s
-----
Server listening on 5201
-----
Accepted connection from ::1, port 62065
[ 5] local ::1 port 5201 connected to ::1 port 62066
[ ID] Interval      Transfer    Bandwidth
[ 5] 0.00-1.00    sec  310 MBytes  2.60 Gbits/sec
[ 5] 1.00-2.00    sec  360 MBytes  3.02 Gbits/sec
[ 5] 2.00-3.00    sec  386 MBytes  3.24 Gbits/sec
[ 5] 3.00-4.00    sec  373 MBytes  3.13 Gbits/sec
[ 5] 4.00-5.00    sec  377 MBytes  3.16 Gbits/sec
[ 5] 5.00-6.00    sec  356 MBytes  2.99 Gbits/sec
[ 5] 6.00-7.00    sec  377 MBytes  3.16 Gbits/sec
[ 5] 7.00-8.00    sec  385 MBytes  3.23 Gbits/sec
[ 5] 8.00-9.00    sec  377 MBytes  3.16 Gbits/sec
[ 5] 9.00-10.00   sec  376 MBytes  3.15 Gbits/sec
[ 5] 10.00-10.00  sec   0.00 Bytes  0.00 bits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 5] 0.00-10.00   sec  3.59 GBytes  3.08 Gbits/sec
-----
Server listening on 5201
-----
sender
receiver
```

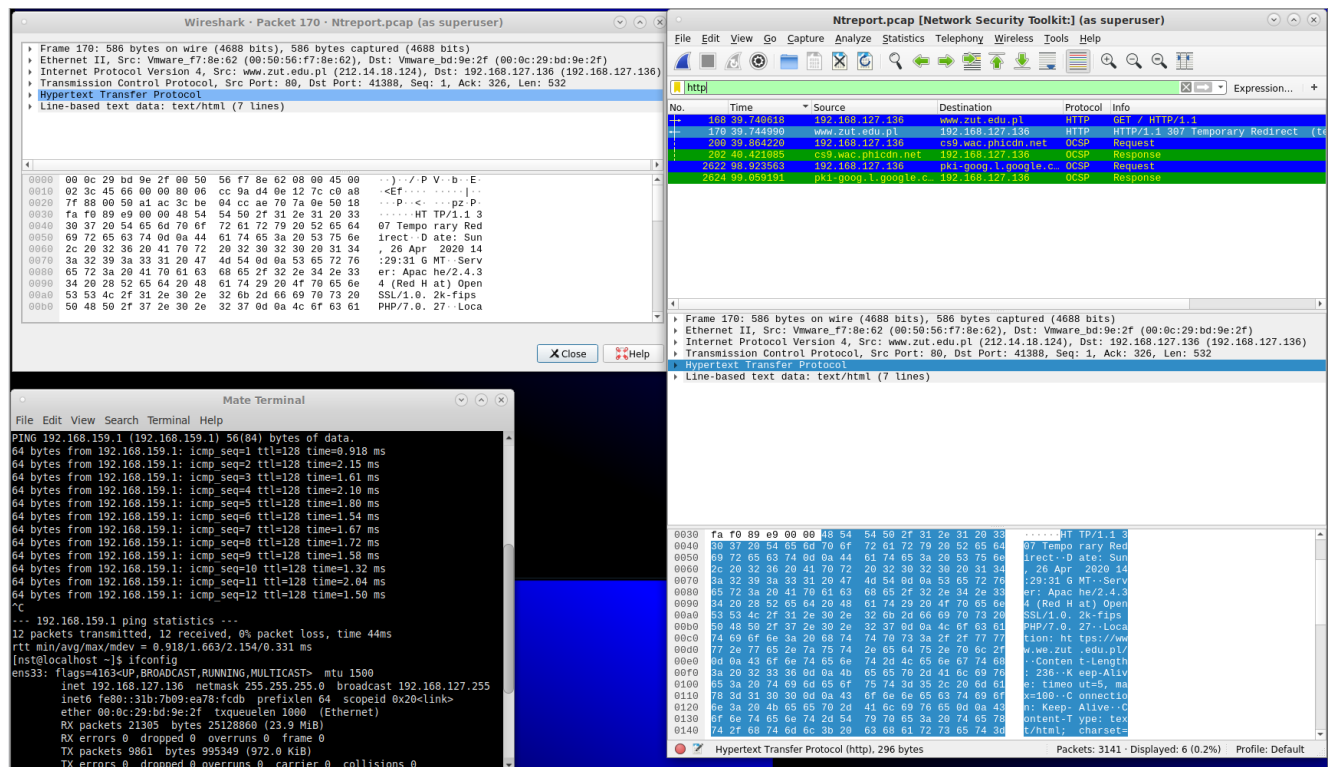
```
Command Prompt
iperf3: error - unable to connect to server: Connection timed out
C:\iperf3>iperf3.exe -c localhost
Connecting to host localhost, port 5201
[ 4] local ::1 port 62066 connected to ::1 port 5201
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-1.00    sec  310 MBytes  2.60 Gbits/sec
[ 4] 1.00-2.00    sec  360 MBytes  3.02 Gbits/sec
[ 4] 2.00-3.00    sec  386 MBytes  3.24 Gbits/sec
[ 4] 3.00-4.00    sec  373 MBytes  3.13 Gbits/sec
[ 4] 4.00-5.00    sec  377 MBytes  3.16 Gbits/sec
[ 4] 5.00-6.00    sec  356 MBytes  2.99 Gbits/sec
[ 4] 6.00-7.00    sec  377 MBytes  3.16 Gbits/sec
[ 4] 7.00-8.00    sec  385 MBytes  3.23 Gbits/sec
[ 4] 8.00-9.00    sec  377 MBytes  3.17 Gbits/sec
[ 4] 9.00-10.00   sec  376 MBytes  3.15 Gbits/sec
-----
[ ID] Interval      Transfer    Bandwidth
[ 4] 0.00-10.00   sec  3.59 GBytes  3.08 Gbits/sec
-----
iperf Done.
C:\iperf3>
```

## 2- Wireshark

### A- Method

[www.zut.edu.pl](http://www.zut.edu.pl) web page was visited and the generated network traffic was analyzed with Wireshark software.

### B- Screenshot



## 3- Network Troubleshooting

### A- Method

Two different addresses were pinged in order to find out where they were clogged when going to the address to be reached.

## B- Screenshots

```
Command Prompt
Microsoft Windows [Version 10.0.18362.778]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Sanal Krlk>tracert www.google.com.pl

Tracing route to www.google.com.pl [172.217.19.195]
over a maximum of 30 hops:

  1    5 ms    2 ms    2 ms  xl5304vl270.dschozin.zut.edu.pl [109.69.88.1]
  2    *      2 ms    2 ms  vl0030-zl1.zut.edu.pl [212.14.28.69]
  3    *      *      *      Request timed out.
  4    2 ms    2 ms    2 ms  212.14.0.93
  5    4 ms    2 ms    5 ms  212.14.1.130
  6    5 ms    5 ms    5 ms  z-POZMAN.poznan-gw2-amsix.rtr.pionier.gov.pl [212.191.237.237]
  7    51 ms   27 ms   22 ms  core1.ams.net.google.com [80.249.208.247]
  8    23 ms   22 ms   23 ms  108.170.241.193
  9   177 ms   43 ms   23 ms  72.14.238.245
 10    23 ms   23 ms   23 ms  ams16s31-in-f3.1e100.net [172.217.19.195]

Trace complete.

C:\Users\Sanal Krlk>
```

```
Command Prompt

C:\Users\Sanal Krlk>tracert 192.14.2.1

Tracing route to 192.14.2.1 over a maximum of 30 hops

  1    2 ms    3 ms    6 ms  xl5304vl270.dschozin.zut.edu.pl [109.69.88.1]
  2    4 ms    3 ms    2 ms  vl0030-zl1.zut.edu.pl [212.14.28.69]
  3    *      *      *      Request timed out.
  4   37 ms   50 ms   20 ms  212.14.0.93
  5    2 ms    2 ms    3 ms  212.14.1.142
  6    *      *      *      Request timed out.
  7    *      *      *      Request timed out.
  8    *      *      *      Request timed out.
  9    *      *      *      Request timed out.
 10    *      *      *      Request timed out.
 11    *      *      *      Request timed out.
 12    *      *      *      Request timed out.
 13    *      *      *      Request timed out.
 14    *      *      *      Request timed out.
 15    *      *      *      Request timed out.
 16    *      *      *      Request timed out.
 17    *      *      *      Request timed out.
 18    *      *      *      Request timed out.
 19 ^C

C:\Users\Sanal Krlk>
```