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KELAS   : 1IA13

NPM   : 51422161

FUNDAMENTAL NETWORK
ACTIVITY 4

Test jaringan pada google.com

Test jaringan pada twitter.com
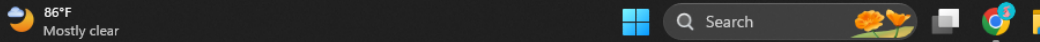
```
C:\Users\ASUS>tracert twitter.com

Tracing route to twitter.com [104.244.42.193]
over a maximum of 30 hops:

  1     1 ms     1 ms     2 ms  192.168.1.1
  2     2 ms     1 ms     1 ms  10.0.10.1
  3     3 ms     3 ms     4 ms  10.16.204.161
  4     4 ms     2 ms     2 ms  103.208.205.121
  5     4 ms     5 ms     2 ms  ip-6.30.hsp.net.id [103.115.30.6]
  6    16 ms    14 ms    16 ms  13414.sgw.equinix.com [27.111.228.113]
  7     *       18 ms     *     104.244.42.193
  8    16 ms    16 ms    17 ms  104.244.42.193

Trace complete.

C:\Users\ASUS>
```

Test jaringan pada facebook.com

```
C:\Users\ASUS>tracert facebook.com

Tracing route to facebook.com [31.13.95.35]
over a maximum of 30 hops:

  1     4 ms     2 ms     2 ms  192.168.1.1
  2     4 ms     2 ms     1 ms  10.0.10.1
  3     4 ms     3 ms     2 ms  10.16.204.161
  4    13 ms     4 ms     2 ms  103.208.205.121
  5     3 ms     4 ms     3 ms  ip-132.188.hsp.net [103.146.188.132]
  6     6 ms     3 ms     3 ms  ae18.pr02.cgk1.tfbnw.net [157.240.81.246]
  7     4 ms     4 ms     2 ms  po102.psw03.cgk1.tfbnw.net [157.240.53.231]
  8     3 ms     5 ms     *     157.240.39.149
  9    58 ms     5 ms     3 ms  edge-star-mini-shv-02-cgk1.facebook.com [31.13.95.35]

Trace complete.

C:\Users\ASUS>
```

Netstat: network statistic

misal ada koneksi tbtb jadi lemot
atau lambat
itu bisa di lait pake netstat
apakah ada traffic yang besar atau tidak

```
C:\Users\ASUS>netstat

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    127.0.0.1:44430        LAPTOP-H8J1HBLS:57256   ESTABLISHED
  TCP    127.0.0.1:50041        LAPTOP-H8J1HBLS:57723   ESTABLISHED
  TCP    127.0.0.1:57256        LAPTOP-H8J1HBLS:44430   ESTABLISHED
  TCP    127.0.0.1:57723        LAPTOP-H8J1HBLS:50041   ESTABLISHED
  TCP    127.0.0.1:57870        LAPTOP-H8J1HBLS:57871   ESTABLISHED
  TCP    127.0.0.1:57871        LAPTOP-H8J1HBLS:57870   ESTABLISHED
  TCP    127.0.0.1:57872        LAPTOP-H8J1HBLS:57873   ESTABLISHED
  TCP    127.0.0.1:57873        LAPTOP-H8J1HBLS:57872   ESTABLISHED
  TCP    192.168.1.5:56488      20.198.118.190:https    ESTABLISHED
  TCP    192.168.1.5:56497      sm-in-f188:5228         ESTABLISHED
  TCP    192.168.1.5:56775      whatsapp-chatd-edge-shv-01-cgk1:http  ESTABLISHED
  TCP    192.168.1.5:56853      162.159.133.234:https   ESTABLISHED
  TCP    192.168.1.5:56869      162.159.128.235:https   ESTABLISHED
  TCP    192.168.1.5:56927      ec2-35-174-127-31:https  ESTABLISHED
  TCP    192.168.1.5:57278      server-13-33-88-78:http  CLOSE_WAIT
  TCP    192.168.1.5:57279      server-13-33-88-78:http  CLOSE_WAIT
  TCP    192.168.1.5:57290      ec2-3-227-51-19:https    CLOSE_WAIT
  TCP    192.168.1.5:57293      ec2-3-227-51-19:https    CLOSE_WAIT
  TCP    192.168.1.5:57606      40.99.10.34:https       ESTABLISHED
  TCP    192.168.1.5:57843      52.109.56.86:https      TIME_WAIT
  TCP    192.168.1.5:57898      13.107.42.18:https      TIME_WAIT
  TCP    192.168.1.5:57914      sa-in-f113:https        TIME_WAIT
  TCP    192.168.1.5:57926      52.109.56.83:https      TIME_WAIT
  TCP    192.168.1.5:57927      sb-in-f94:https         TIME_WAIT
  TCP    192.168.1.5:57929      162.159.135.232:https   TIME_WAIT
  TCP    192.168.1.5:57930      13.107.6.175:https      TIME_WAIT
  TCP    192.168.1.5:57931      13.107.6.175:https      TIME_WAIT
  TCP    192.168.1.5:57932      13.107.6.175:https      TIME_WAIT
  TCP    192.168.1.5:57933      13.107.6.175:https      TIME_WAIT
  TCP    192.168.1.5:57945      sa-in-f95:https         TIME_WAIT
  TCP    192.168.1.5:57947      sg-in-f138:https        TIME_WAIT
  TCP    192.168.1.5:57950      a23-36-48-113:https     ESTABLISHED
  TCP    192.168.1.5:57953      13.89.179.12:https      ESTABLISHED
  TCP    192.168.1.5:57954      sm-in-f84:https         TIME_WAIT
  TCP    192.168.1.5:57955      103.134.188.34:https    ESTABLISHED
  TCP    192.168.1.5:57956      whatsapp-cdn-shv-01-cgk1:https  ESTABLISHED
  TCP    192.168.1.5:57957      whatsapp-cdn-shv-01-sin6:https  ESTABLISHED
  TCP    192.168.1.5:57958      whatsapp-cdn-shv-01-cgk1:https  ESTABLISHED

C:\Users\ASUS>
```

netstat –n: nampilin alamat dan port dalam bentuk numerik

```
C:\Users\ASUS>netstat -n

Active Connections

  Proto  Local Address          Foreign Address        State
  TCP    127.0.0.1:44430        127.0.0.1:57256        ESTABLISHED
  TCP    127.0.0.1:50041        127.0.0.1:57723        ESTABLISHED
  TCP    127.0.0.1:57256        127.0.0.1:44430        ESTABLISHED
  TCP    127.0.0.1:57723        127.0.0.1:50041        ESTABLISHED
  TCP    127.0.0.1:57870        127.0.0.1:57871        ESTABLISHED
  TCP    127.0.0.1:57871        127.0.0.1:57870        ESTABLISHED
  TCP    127.0.0.1:57872        127.0.0.1:57873        ESTABLISHED
  TCP    127.0.0.1:57873        127.0.0.1:57872        ESTABLISHED
  TCP    192.168.1.5:56488      20.198.118.190:443     ESTABLISHED
  TCP    192.168.1.5:56497      142.250.4.188:5228     ESTABLISHED
  TCP    192.168.1.5:56775      157.240.208.61:80      ESTABLISHED
  TCP    192.168.1.5:56853      162.159.133.234:443    ESTABLISHED
  TCP    192.168.1.5:56869      162.159.128.235:443    ESTABLISHED
  TCP    192.168.1.5:56927      35.174.127.31:443      ESTABLISHED
  TCP    192.168.1.5:57278      13.33.88.78:80         CLOSE_WAIT
  TCP    192.168.1.5:57279      13.33.88.78:80         CLOSE_WAIT
  TCP    192.168.1.5:57290      3.227.51.19:443        CLOSE_WAIT
  TCP    192.168.1.5:57293      3.227.51.19:443        CLOSE_WAIT
  TCP    192.168.1.5:57606      40.99.10.34:443        ESTABLISHED
  TCP    192.168.1.5:57977      162.159.138.232:443    ESTABLISHED
  TCP    192.168.1.5:57980      20.50.73.9:443         TIME_WAIT
  TCP    192.168.1.5:57981      20.44.10.123:443       TIME_WAIT
  TCP    192.168.1.5:57982      52.109.124.115:443     TIME_WAIT
  TCP    192.168.1.5:57983      13.89.179.12:443       TIME_WAIT
  TCP    192.168.1.5:57984      13.89.179.12:443       TIME_WAIT
  TCP    192.168.1.5:57985      3.211.248.219:443      ESTABLISHED
  TCP    192.168.1.5:57986      20.42.73.29:443        ESTABLISHED

C:\Users\ASUS>
```