

Canada

ETHZ

Traceroute Output

FROM www.tera-byte.com TO 129.132.19.216

```
traceroute to 129.132.19.216 (129.132.19.216) from 216.234.191.172, 30 hops max, 40 byte packets
 1  cat6509-vlan2.edm.tera-byte.com (216.234.161.1)  0.698 ms
 2  *
 3  edtnabkdgr01.bb.telus.com (205.233.111.108)  1.593 ms
 4  154.11.2.83 (154.11.2.83)  20.753 ms
 5  *
 6  ae-1-10.bar1.Geneva1.Level3.net (4.69.203.66)  153.258 ms
 7  DANTE.bar1.Geneva1.Level3.net (213.242.73.74)  159.362 ms
 8  swiCE4-B4.switch.ch (130.59.36.70)  158.819 ms
 9  swiBE3-100GE-0-1-0-1.switch.ch (130.59.37.145)  169.056 ms
10  swiBF1-100GE-0-0-0-1.switch.ch (130.59.39.78)  170.346 ms
11  swiEZ3-100GE-0-1-0-0.switch.ch (130.59.37.6)  163.380 ms
12  rou-gw-lee-tengig-to-switch.ethz.ch (192.33.92.1)  170.085 ms
13  rou-fw-rz-rz-gw.ethz.ch (192.33.92.169)  170.178 ms
14  www.ethz.ch (129.132.19.216)  169.342 ms
```

Conduct [another search](#)

UWaloo

Traceroute Output

FROM www.tera-byte.com TO 129.97.208.23

```
traceroute to 129.97.208.23 (129.97.208.23) from 216.234.191.172, 30 hops max, 40 byte packets
 1  cat6509-vlan2.edm.tera-byte.com (216.234.161.1)  0.587 ms
 2  *
 3  edtnabkdgr01.bb.telus.com (205.233.111.108)  0.922 ms
 4  75.154.215.137 (75.154.215.137)  36.863 ms
 5  24.156.159.141 (24.156.159.141)  37.241 ms
 6  209.148.233.37 (209.148.233.37)  37.370 ms
 7  209.148.230.46 (209.148.230.46)  39.247 ms
 8  24.156.146.190 (24.156.146.190)  40.966 ms
 9  unallocated-static.rogers.com (72.142.108.182)  41.845 ms
10  *
11  *
12  *
13  *
14  wms.uwaterloo.ca (129.97.208.23)  41.317 ms
15  wms.uwaterloo.ca (129.97.208.23)  41.311 ms !N
```

Conduct [another search](#)

Bits Pilani

Traceroute Output

FROM www.tera-byte.com TO 14.139.243.30

```
traceroute to 14.139.243.30 (14.139.243.30) from 216.234.191.172, 30 hops max, 40 byte packets
 1  cat6509-vlan2.edm.tera-byte.com (216.234.161.1)  0.419 ms
 2  *
 3  edtnabxmgr01.bb.telus.com (205.233.111.139)  0.864 ms
 4  154.11.12.201 (154.11.12.201)  18.495 ms
 5  ix-ae-27-0.tcore1.00s-seattle.as6453.net (64.86.123.208)  49.518 ms
 6  if-ae-20-2.tcore1.svl-santa-clara.as6453.net (64.86.123.95)  245.082 ms
 7  if-ae-8-2.tcore1.lvw-los-angeles.as6453.net (66.110.59.8)  249.029 ms
 8  if-ae-2-2.tcore2.lvw-los-angeles.as6453.net (66.110.59.2)  248.879 ms
 9  if-et-20-2.hcore2.kv8-chiba.as6453.net (64.86.252.217)  180.911 ms
10  if-ae-23-2.tcore1.svw-singapore.as6453.net (180.87.67.32)  258.229 ms
11  if-ae-32-3.tcore2.svw-singapore.as6453.net (180.87.181.165)  256.559 ms
12  180.87.15.202 (180.87.15.202)  295.955 ms
13  *
14  14.140.210.22.static-Delhi-vsnl.net.in (14.140.210.22)  333.429 ms
15  *
16  *
17  *
18  14.139.243.17 (14.139.243.17)  308.724 ms
19  *
20  *
21  *
22  *
23  *
24  *
25  *
26  *
27  *
28  *
29  *
30  *
```

Google

Traceroute Output

FROM www.tera-byte.com TO 216.58.219.196

```
traceroute to 216.58.219.196 (216.58.219.196) from 216.234.191.172, 30 hops max, 40 byte packets
 1  cat6509-vlan2.edm.tera-byte.com (216.234.161.1)  0.503 ms
 2  *
 3  tcore3-edmonton_bel.net.bell.ca (64.230.119.232)  48.332 ms
 4  tcore4-calgaryqa_bel6.net.bell.ca (64.230.76.164)  44.098 ms
 5  tcore4-calgaryqa_0-1-0-1.net.bell.ca (64.230.78.236)  45.785 ms
 6  tcore1-torontoxn_ae2.net.bell.ca (64.230.51.152)  44.738 ms
 7  bx3-torontoxn_hundredgige0-1-0-0.net.bell.ca (64.230.97.145)  44.239 ms
 8  google_bx3-torontoxn.net.bell.ca (184.150.181.147)  46.372 ms
 9  *
10  216.239.35.234 (216.239.35.234)  53.707 ms
11  *
12  *
13  *
14  *
15  *
16  *
17  *
18  *
19  *
20  *
21  *
22  *
23  *
24  *
25  *
26  *
27  *
28  *
29  *
30  *
```

Facebook

Traceroute Output

FROM www.tera-byte.com TO 31.13.75.36

```
traceroute to 31.13.75.36 (31.13.75.36) from 216.234.191.172, 30 hops max, 40 byte packets
 1  cat6509-vlan2.edm.tera-byte.com (216.234.161.1)  0.512 ms
 2  *
 3  tcore4-edmonton_bundle-ether1.net.bell.ca (64.230.119.234)  64.506 ms
 4  tcore4-calgaryqa_bel6.net.bell.ca (64.230.76.164)  59.437 ms
 5  tcore4-calgaryqa_0-1-0-1.net.bell.ca (64.230.78.236)  59.302 ms
 6  tcore4-chicagocp_hundredgige0-8-0-0.net.bell.ca (64.230.79.153)  62.049 ms
 7  bx7-chicagodt_bundle-ether5.net.bell.ca (64.230.79.171)  56.820 ms
 8  ae9.pr03.ord3.tfbnw.net (157.240.67.78)  52.607 ms
 9  *
10  ae141.ar01.ord3.tfbnw.net (157.240.41.208)  46.455 ms
11  ae41.bb01.ord1.tfbnw.net (157.240.44.54)  47.096 ms
12  ae38.bb03.atn3.tfbnw.net (74.119.78.14)  58.683 ms
13  *
14  ae0.dr02.atn2.tfbnw.net (31.13.25.105)  87.433 ms !N
```

Australia

ETH


```

1 gigabitethernet3-3.exil.melbourne.telstra.net (203.50.77.49) 0.377 ms 0.269 ms 0.240 ms
2 bundle-ether3-100.exi-core10.melbourne.telstra.net (203.50.80.1) 1.115 ms 1.416 ms 2.240 ms
3 bundle-ether12.chw-core10.sydney.telstra.net (203.50.11.124) 13.234 ms 14.035 ms 12.861 ms
4 bundle-ether1.oxf-gw11.sydney.telstra.net (203.50.6.93) 14.357 ms 14.286 ms 14.983 ms
5 bundle-ether1.sydo-core03.sydney.reach.com (203.50.13.98) 14.234 ms 14.161 ms 15.110 ms
6 i-10403.sydo-core04.telstraglobal.net (202.84.222.130) 15.359 ms 14.160 ms 14.859 ms
7 i-10604.lwlt-core02.telstraglobal.net (202.84.141.225) 156.280 ms 155.578 ms 154.777 ms
8 i-93.tlot02.bi.telstraglobal.net (202.84.253.86) 154.653 ms 154.577 ms 154.529 ms
9 l3-peer.tlot02.pr.telstraglobal.net (134.159.61.46) 154.277 ms
10 ae-1-10.bar1.Geneval.Level3.net (4.69.203.66) 302.369 ms 302.616 ms 302.443 ms
11 DANTE.bar1.Geneval.Level3.net (213.242.73.74) 302.938 ms 302.864 ms 302.817 ms
12 swiCE4-B4.switch.ch (130.59.36.70) 303.063 ms 303.367 ms 303.062 ms
13 swiBE3-100GE-0-1-0-1.switch.ch (130.59.37.145) 307.315 ms 307.239 ms 307.188 ms
14 swiBF1-100GE-0-0-0-1.switch.ch (130.59.39.78) 312.185 ms 312.235 ms 312.186 ms
15 swiEZ3-100GE-0-1-0-0.switch.ch (130.59.37.6) 307.436 ms 307.366 ms 307.434 ms
16 rou-gw-lee-tengig-to-switch.ethz.ch (192.33.92.1) 311.311 ms

```

Waterloo

```

1 gigabitethernet3-3.exil.melbourne.telstra.net (203.50.77.49) 0.259 ms 0.269 ms 0.240 ms
2 bundle-ether3-100.exi-core10.melbourne.telstra.net (203.50.80.1) 2.114 ms 1.540 ms 2.241 ms
3 bundle-ether12.chw-core10.sydney.telstra.net (203.50.11.124) 11.609 ms 12.286 ms 11.611 ms
4 bundle-ether1.pad-gw10.sydney.telstra.net (203.50.6.57) 13.232 ms 12.911 ms 12.860 ms
5 bundle-ether1.sydp-core03.sydney.reach.com (203.50.13.86) 12.987 ms 12.910 ms 12.612 ms
6 i-10201.sydp-core04.telstraglobal.net (202.84.222.134) 12.983 ms 12.660 ms 12.736 ms
7 i-20802.eqnx-core02.telstraglobal.net (202.84.141.25) 149.032 ms 148.709 ms 148.155 ms
8 i-92.eqnx03.telstraglobal.net (202.84.247.17) 146.901 ms 146.957 ms 146.907 ms
9 tata-peer.eqnx03.pr.telstraglobal.net (134.159.63.102) 158.399 ms 158.954 ms 158.273 ms
10 if-ae-1-2.tcore2.sqn-san-jose.as6453.net (63.243.205.2) 209.115 ms 209.045 ms 208.996 ms
11 if-ae-29-2.tcore1.ct8-chicago.as6453.net (64.86.21.105) 214.743 ms 214.672 ms 214.486 ms
12 if-ae-22-2.tcore2.ct8-chicago.as6453.net (64.86.79.1) 209.267 ms 209.284 ms 209.248 ms
13 64.86.79.127 (64.86.79.127) 208.994 ms 211.045 ms 211.747 ms
14 209.148.237.22 (209.148.237.22) 224.236 ms
15 209.148.233.89 (209.148.233.89) 220.908 ms 221.046 ms 220.855 ms
16 209.148.230.54 (209.148.230.54) 227.359 ms 228.660 ms 227.860 ms
17 24.156.146.198 (24.156.146.198) 221.733 ms 221.792 ms 221.987 ms
18 24.156.146.218 (24.156.146.218) 229.106 ms 229.035 ms 229.110 ms
19 unallocated-static.rogers.com (72.142.108.182) 229.985 ms

```

Capetown

```

1 gigabitethernet3-3.exil.melbourne.telstra.net (203.50.77.49) 5.328 ms 2.267 ms 0.239 ms
2 bundle-ether3-100.exi-core10.melbourne.telstra.net (203.50.80.1) 1.366 ms 1.668 ms 2.115 ms
3 bundle-ether12.chw-core10.sydney.telstra.net (203.50.11.124) 13.110 ms 13.661 ms 12.360 ms
4 bundle-ether1.oxf-gw11.sydney.telstra.net (203.50.6.93) 13.480 ms 14.158 ms 15.109 ms
5 bundle-ether1.sydo-core03.sydney.reach.com (203.50.13.98) 15.610 ms 14.036 ms 14.984 ms
6 i-10403.sydo-core04.telstraglobal.net (202.84.222.130) 14.984 ms 14.408 ms 14.984 ms
7 i-10604.lwlt-core02.telstraglobal.net (202.84.141.225) 156.651 ms 155.452 ms 155.153 ms
8 i-0-6-0-1.paix-core02.telstraglobal.net (202.84.143.198) 198.376 ms 198.429 ms 197.001 ms
9 i-0-7-0-1.eqnx-core02.telstraglobal.net (202.84.143.209) 155.526 ms 156.077 ms
10 i-92.eqnx03.telstraglobal.net (202.84.247.17) 152.701 ms 152.582 ms 153.901 ms
11 sjo-b21-link.telia.net (80.239.128.76) 152.529 ms 152.452 ms 155.026 ms
12 palo-b22-link.telia.net (62.115.115.216) 153.650 ms
13 cogent-ic-344188-palo-b22.c.telia.net (62.115.174.65) 153.703 ms 156.198 ms 153.651 ms
14 be2016.ccr22.sfo01.atlas.cogentco.com (154.54.0.177) 154.651 ms 154.213 ms
15 be3110.ccr32.slc01.atlas.cogentco.com (154.54.44.142) 186.300 ms
16 be3037.ccr21.den01.atlas.cogentco.com (154.54.41.146) 183.438 ms
17 be3036.ccr22.mci01.atlas.cogentco.com (154.54.31.90) 200.556 ms 202.886 ms 200.369 ms
18 be2831.ccr41.ord01.atlas.cogentco.com (154.54.42.166) 218.104 ms
19 be2718.ccr22.cle04.atlas.cogentco.com (154.54.7.130) 224.058 ms

```

Bits Pilani

```

1 gigabitethernet3-3.exil.melbourne.telstra.net (203.50.77.49) 0.248 ms 0.267 ms 0.241 ms
2 bundle-ether3-100.exi-core10.melbourne.telstra.net (203.50.80.1) 1.367 ms 1.541 ms 2.366 ms
3 bundle-ether2.way-core10.adelaide.telstra.net (203.50.6.230) 14.359 ms 14.285 ms 14.858 ms
4 bundle-ether3.pie-core10.perth.telstra.net (203.50.6.235) 42.340 ms 41.893 ms 42.468 ms
5 bundle-ether1.wel-core10.perth.telstra.net (203.50.11.228) 40.967 ms 39.767 ms 40.346 ms
6 203.50.9.6 (203.50.9.6) 39.590 ms 42.146 ms 39.968 ms
7 i-25154.sgcn-core01.telstraglobal.net (202.84.141.237) 87.067 ms 85.744 ms 85.192 ms
8 i-91.istt04.telstraglobal.net (202.84.224.197) 85.444 ms 85.369 ms 85.568 ms

```

There are other traceroute sites listed [here](#).

Google

Facebook

```

1 gigabitethernet3-3.exil.melbourne.telstra.net (203.50.77.49) 0.300 ms 0.268 ms 0.240 ms
2 bundle-ether3-100.exi-core10.melbourne.telstra.net (203.50.80.1) 2.491 ms 1.541 ms 2.116 ms
3 bundle-ether2.way-core10.adelaide.telstra.net (203.50.6.230) 15.608 ms 14.408 ms 15.485 ms
4 bundle-ether3.pie-core10.perth.telstra.net (203.50.6.235) 41.591 ms 40.895 ms 41.469 ms
5 203.50.9.2 (203.50.9.2) 42.593 ms 41.896 ms 43.966 ms
6 i-15053.sgpl-core02.telstraglobal.net (202.84.140.38) 86.692 ms 87.616 ms 86.317 ms
7 i-93.istt04.telstraglobal.net (202.84.224.190) 86.438 ms 86.240 ms 86.189 ms
8 ae22.pr04.sin1.tfbnw.net (157.240.68.34) 86.692 ms 87.489 ms 87.066 ms

```

Brasil

ETH

1	xe-0-0-1.ar1.nu.registro.br (200.160.2.253)	0.295 ms
2	ae0-0.core1.nu.registro.br (200.160.0.253)	0.361 ms
3	xe-4-0-0-0.gw1.nu.registro.br (200.160.0.156)	0.596 ms
4	v1936.core2.sao1.he.net (209.51.184.197)	1.297 ms
5	100ge2-1.core1.nyc4.he.net (184.104.192.149)	109.351 ms
6	100ge16-2.core1.lon2.he.net (72.52.92.165)	175.489 ms
7	100ge6-2.core1.ams1.he.net (72.52.92.214)	181.084 ms
8	swiCE1-100GE-0-3-0-1.switch.ch (80.249.208.33)	200.017 ms
9	swiCE4-B4.switch.ch (130.59.36.70)	197.706 ms
10	swiBE3-100GE-0-1-0-1.switch.ch (130.59.37.145)	198.661 ms
11	swiBF1-100GE-0-0-0-1.switch.ch (130.59.39.78)	199.132 ms
12	swiEZ3-100GE-0-1-0-0.switch.ch (130.59.37.6)	197.814 ms
13	rou-gw-lee-tengig-to-switch.ethz.ch (192.33.92.1)	198.511 ms
14	rou-fw-rz-rz-gw.ethz.ch (192.33.92.169)	197.576 ms
15	cms-publish.ethz.ch (129.132.19.216)	196.936 ms

Waterloo

1	xe-0-0-1.ar1.nu.registro.br (200.160.2.253)	0.377 ms
2	ae0-0.core1.nu.registro.br (200.160.0.253)	0.265 ms
3	xe-4-0-0-62.gw3.jd.registro.br (200.160.0.163)	2.392 ms
4	ae-1-646.r01.saplbr01.br.bb.gin.ntt.net (200.15.9.253)	1.342 ms
5	*	
6	ae-19.r00.nycmny17.us.bb.gin.ntt.net (129.250.6.81)	111.942 ms
7	ae-0.rogers-communications.nycmny17.us.bb.gin.ntt.net (140.174.28.14)	110.161 ms
8	209.148.237.1 (209.148.237.1)	127.248 ms
9	9300-cgw01.bloor.rmgt.net.rogers.com (209.148.229.225)	122.799 ms
10	209.148.235.234 (209.148.235.234)	123.542 ms
11	209.148.230.46 (209.148.230.46)	123.814 ms
12	24.156.146.190 (24.156.146.190)	126.871 ms
13	unallocated-static.rogers.com (72.142.108.182)	127.132 ms
14	*	
15	*	
16	*	
17	*	
18	wms.uwaterloo.ca (129.97.208.23)	130.722 ms
19	wms.uwaterloo.ca (129.97.208.23)	130.878 ms

Capetown

>32

Bits

>32

Google

>32

Facebook

IPv4

traceroute to 31.13.75.36 (31.13.75.36), 32 hops max, 40 byte packets

1	xe-0-0-1.ar1.nu.registro.br (200.160.2.253)	0.326 ms
2	ae0-0.core1.nu.registro.br (200.160.0.253)	0.331 ms
3	xe-5-0-0-63.gw2.jd.registro.br (200.160.0.175)	0.528 ms
4	as32934.saopaulo.sp.ix.br (187.16.220.240)	8.723 ms
5	*	
6	ae121.ar01.gru2.tfbnw.net (31.13.26.36)	2.115 ms
7	ae12.bb02.gru2.tfbnw.net (157.240.40.90)	1.483 ms
8	ae9.bb02.vab1.tfbnw.net (157.240.62.185)	124.206 ms
9	ae103.bb02.dca1.tfbnw.net (129.134.49.76)	122.629 ms
10	ae114.bb01.ash7.tfbnw.net (129.134.34.24)	125.012 ms
11	ae1.dr04.ash8.tfbnw.net (157.240.34.65)	123.372 ms

IPv4

traceroute to 31.13.75.36 (31.13.75.36), 32 hops max, 40 byte packets

1	xe-0-0-1.ar1.nu.registro.br (200.160.2.253)	0.326 ms
2	ae0-0.core1.nu.registro.br (200.160.0.253)	0.331 ms
3	xe-5-0-0-63.gw2.jd.registro.br (200.160.0.175)	0.528 ms
4	as32934.saopaulo.sp.ix.br (187.16.220.240)	8.723 ms
5	*	
6	ae121.ar01.gru2.tfbnw.net (31.13.26.36)	2.115 ms
7	ae12.bb02.gru2.tfbnw.net (157.240.40.90)	1.483 ms
8	ae9.bb02.vab1.tfbnw.net (157.240.62.185)	124.206 ms
9	ae103.bb02.dca1.tfbnw.net (129.134.49.76)	122.629 ms
10	ae114.bb01.ash7.tfbnw.net (129.134.34.24)	125.012 ms
11	ae1.dr04.ash8.tfbnw.net (157.240.34.65)	123.372 ms

Greece

Facebook

```
tracert to 216.58.219.196 (216.58.219.196), 30 hops max, 60 byte packets
 1 cs1ab254.cs.aueb.gr (195.251.248.254) 0.771 ms 0.737 ms 0.696 ms
 2 aueb-2-gw.kolettir.access-link.grnet.gr (62.217.98.202) 2.221 ms 2.255 ms 2.223 ms
 3 grnet-ias-geant-gw.mx1.ath2.gr.geant.net (83.97.88.65) 2.940 ms 2.837 ms 2.693 ms
 4 ae0.mx2.ath.gr.geant.net (62.40.98.140) 28.010 ms 27.980 ms 27.970 ms
 5 ae2.mx1.mil2.it.geant.net (62.40.98.150) 27.503 ms 27.456 ms 27.429 ms
 6 * * *
 7 * * *
 8 * * *
 9 * * *
10 * * *
11 * * *
12 * * *
13 * * *
14 * * *
15 * * *
16 * * *
17 * * *
18 * * *
19 * * *
20 * * *
21 * * *
22 * * *
```


Russia
swiss

LOOKING GLASS

●

bgp

●

ping

○

trace

IP address or prefix:

129.132.19.216

Network:

AS1299 - Telia Carrier

Router:

Ashburn

Run

Network: AS1299 - Telia Carrier
Router: Ashburn (ash-b1)
Command: traceroute ipv4 129.132.19.216 timeout 1

Tracing the route to 129.132.19.216

```
1  ash-bb2-link.telia.net (213.155.136.38) 107 msec  107 msec  *
2  *
   prs-bb3-link.telia.net (62.115.112.243) 107 msec
   prs-bb4-link.telia.net (62.115.122.158) 82 msec
3  zch-b2-link.telia.net (62.115.135.123) 106 msec  106 msec
   zch-b2-link.telia.net (62.115.135.129) 102 msec
4  dante-ic-308868-zch-b2.c.telia.net (213.248.79.190) 107 msec  108 msec  107 msec
5  rou-gw-lee-tengig-to-switch.ethz.ch (192.33.92.1) 103 msec  102 msec  103 msec
6  rou-fw-rz-rz-gw.ethz.ch (192.33.92.169) 120 msec  107 msec  108 msec
7  cms-publish.ethz.ch (129.132.19.216) 102 msec  102 msec  107 msec
```

waterloo

●

bgp

●

ping

○

trace

IP address or prefix:

129.97.208.23

Network:

AS1299 - Telia Carrier

Router:

Ashburn

Run

Network: AS1299 - Telia Carrier
Router: Ashburn (ash-b1)
Command: traceroute ipv4 129.97.208.23 timeout 1

Tracing the route to 129.97.208.23

```
1  ash-bb2-link.telia.net (213.155.136.38) 5 msec   5 msec
   ash-bb3-link.telia.net (80.91.248.156) 6 msec
2  * * *
   nyk-b3-link.telia.net (62.115.139.151) 5 msec   5 msec
   nyk-b3-link.telia.net (62.115.140.223) 6 msec
4  zerofail-ic-316684-nyk-b3.c.telia.net (62.115.145.145) 4 msec  4 msec  4 msec
5  * * *
6  74-123-93-154.zerofail.com (74.123.93.154) 19 msec  18 msec  18 msec
7  * * *
8  * * *
9  * * *
10 * * *
11 wms.uwaterloo.ca (129.97.208.23) 18 msec  18 msec  19 msec
12 wms.uwaterloo.ca (129.97.208.23) !N  !N  !N
```

capetown

Network: AS1299 - Telia Carrier
Router: Ashburn (ash-b1)
Command: traceroute ipv4 137.158.158.44 timeout 1

Tracing the route to 137.158.158.44

```
 1  be3113.ccr41.iad02.atlas.cogentco.com (154.54.12.61) 1 msec  0 msec  0 msec
 2  be3084.ccr42.dca01.atlas.cogentco.com (154.54.30.65) 1 msec  1 msec  1 msec
 3  be2806.ccr41.jfk02.atlas.cogentco.com (154.54.40.105) 7 msec  7 msec  7 msec
 4  be2317.ccr41.lon13.atlas.cogentco.com (154.54.30.186) 75 msec
    be2490.ccr42.lon13.atlas.cogentco.com (154.54.42.86) 78 msec  76 msec
 5  be2871.ccr21.lon01.atlas.cogentco.com (154.54.58.186) 77 msec
    be2868.ccr21.lon01.atlas.cogentco.com (154.54.57.154) 76 msec
    be2870.ccr22.lon01.atlas.cogentco.com (154.54.58.174) 75 msec
 6  be2186.rcr21.b015534-1.lon01.atlas.cogentco.com (154.54.61.69) 79 msec
    be2185.rcr21.b015534-1.lon01.atlas.cogentco.com (154.54.61.61) 75 msec
    be2186.rcr21.b015534-1.lon01.atlas.cogentco.com (154.54.61.69) 79 msec
 7  tenet.demarc.cogentco.com (149.14.146.194) 84 msec  85 msec  87 msec
 8  et-1-0-0-ams1-ir1.net.tenet.ac.za (155.232.1.80) 83 msec  81 msec  83 msec
 9  ae0-306-mt1-pe1.net.tenet.ac.za (155.232.1.86) 259 msec  264 msec  255 msec
10  xe-1-3-0-0-isd1-pe2.net.tenet.ac.za (155.232.1.60) 266 msec
    xe-2-2-1-0-isd1-pe2.net.tenet.ac.za (155.232.1.62) 264 msec  263 msec
11  eth3-15-cpt3-p1.net.tenet.ac.za (155.232.1.67) 281 msec
    eth3-35-cpt3-p1.net.tenet.ac.za (155.232.1.33) 279 msec
    eth3-13-cpt3-p1.net.tenet.ac.za (155.232.1.69) 284 msec
12  et-0-0-1-0-cpt3-p2.net.tenet.ac.za (155.232.64.61) 283 msec  283 msec  279 msec
13  et-0-0-1-0-cpt2-p2.net.tenet.ac.za (155.232.64.64) 281 msec  283 msec  282 msec
14  eth50-1-cpt2-p1.net.tenet.ac.za (155.232.64.135) 284 msec  283 msec  283 msec
15  be1-104-cpt2-pe1.net.tenet.ac.za (155.232.64.73) 281 msec  283 msec  282 msec
16  155.232.27.78 284 msec  283 msec  284 msec
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
```

Google,facebook like below

Network: AS1299 - Telia Carrier

Router: Ashburn (ash-b1)

Command: traceroute ipv4 216.58.219.196 timeout 1

Tracing the route to 216.58.219.196

```
1  *  *  *
2  *  *  *
3  *  *  *
4  *  *  *
5  *  *  *
6  *  *  *
7  *  *  *
8  *  *  *
9  *  *  *
10 *  *  *
11 *  *  *
12 *  *  *
13 *  *  *
14 *  *  *
15 *  *  *
16 *  *  *
17 *  *  *
18 *  *  *
19 *  *  *
20 *  *  *
21 *  *  *
22 *  *  *
23 *  *  *
24 *  *  *
25 *  *  *
26 *  *  *
27 *  *  *
28 *  *  *
29 *  *  *
30 *  *  *
```

Singapore

Ethz

Traceroute Result:

```
traceroute to 129.132.19.216 (129.132.19.216), 30 hops max, 60 byte packets
 1  ge2-8.r01.sin01.ne.com.sg (202.150.221.169)  0.139 ms  0.161 ms  0.169 ms
 2  10.15.62.214 (10.15.62.214)  0.185 ms  0.195 ms  0.208 ms
 3  203.208.177.109 (203.208.177.109)  0.540 ms  2.003 ms  0.556 ms
 4  203.208.172.154 (203.208.172.154)  179.541 ms  179.582 ms  203.208.154.46 (203.208.154.46)  180.968 ms
 5  * * *
 6  ae14.cs1.lax112.us.eth.zayo.com (64.125.27.40)  316.345 ms  314.370 ms  305.668 ms
 7  ae3.cs1.dfw2.us.eth.zayo.com (64.125.29.52)  311.498 ms  311.524 ms  313.491 ms
 8  ae5.cs1.iah1.us.eth.zayo.com (64.125.28.98)  305.101 ms  317.893 ms  305.151 ms
 9  ae3.cs1.dca2.us.eth.zayo.com (64.125.29.48)  312.737 ms  337.853 ms  317.248 ms
10  * * *
11  * * *
12  ae0.cs1.lhr15.uk.eth.zayo.com (64.125.29.119)  322.834 ms  322.882 ms  309.668 ms
13  ae2.cs1.ams10.nl.eth.zayo.com (64.125.29.16)  322.914 ms  321.941 ms  309.816 ms
14  ae3.er1.ams1.nl.zip.zayo.com (64.125.31.105)  310.637 ms  311.405 ms  307.582 ms
15  * * *
16  swiCE4-B4.switch.ch (130.59.36.70)  338.412 ms  326.904 ms  331.389 ms
17  swiBE3-100GE-0-1-0-1.switch.ch (130.59.37.145)  335.946 ms  335.740 ms  335.148 ms
18  swiBF1-100GE-0-0-0-1.switch.ch (130.59.39.78)  322.549 ms  331.539 ms  334.846 ms
19  swiEZ3-100GE-0-1-0-0.switch.ch (130.59.37.6)  336.439 ms  331.072 ms  334.278 ms
20  rou-gw-lee-tengig-to-switch.ethz.ch (192.33.92.1)  338.858 ms  337.777 ms  325.389 ms
21  rou-fw-rz-rz-gw.ethz.ch (192.33.92.169)  335.713 ms  331.796 ms  326.790 ms
22  cms-publish.ethz.ch (129.132.19.216)  334.229 ms  322.994 ms  334.662 ms
```

Traceroute Completed.

Waterloo

Traceroute Result:

```
traceroute to 129.97.208.23 (129.97.208.23), 30 hops max, 60 byte packets
 1  ge2-8.r01.sin01.ne.com.sg (202.150.221.169)  0.184 ms  0.185 ms  0.189 ms
 2  10.15.62.222 (10.15.62.222)  33.154 ms  33.197 ms  33.207 ms
 3  vlan844.r01.hkg01.ne.com.sg (203.174.80.105)  34.056 ms  34.127 ms  34.310 ms
 4  bundle-ether40.br05.chc01.pccwbtn.net (63.218.4.242)  233.017 ms  238.223 ms  238.244 ms
 5  bundle-ether41.br05.chc01.pccwbtn.net (63.218.4.234)  240.674 ms  240.695 ms  209-8-108-158.static.pccwglobal.net (209.8.108.158)
 6  209.148.237.18 (209.148.237.18)  229.307 ms  209-8-108-158.static.pccwglobal.net (209.8.108.158)  219.078 ms  209.148.237.22 (209.
 7  209.148.233.89 (209.148.233.89)  247.154 ms  247.039 ms  251.206 ms
 8  209.148.230.54 (209.148.230.54)  255.257 ms  255.504 ms  250.974 ms
 9  24.156.146.198 (24.156.146.198)  262.241 ms  266.370 ms  262.162 ms
10  24.156.146.218 (24.156.146.218)  260.642 ms  24.156.146.198 (24.156.146.198)  268.226 ms  24.156.146.218 (24.156.146.218)  264.518
11  24.156.146.218 (24.156.146.218)  266.638 ms  unallocated-static.rogers.com (72.142.108.182)  252.420 ms  252.539 ms
12  unallocated-static.rogers.com (72.142.108.182)  258.462 ms * *
13  * * *
14  * * *
15  * * *
16  wms.uwaterloo.ca (129.97.208.23)  243.151 ms  243.178 ms  247.210 ms
17  wms.uwaterloo.ca (129.97.208.23)  247.150 ms !N  243.224 ms !N  247.245 ms !N
```

Traceroute Completed.

Capetown

Traceroute Result:

```
traceroute to 137.158.158.44 (137.158.158.44), 30 hops max, 60 byte packets
 1 ge2-8.r01.sin01.ne.com.sg (202.150.221.169) 0.139 ms 0.155 ms 0.176 ms
 2 10.15.62.202 (10.15.62.202) 0.666 ms 0.677 ms 0.685 ms
 3 xe-0-0-7-1.a01.sngpsi03.sg.bb.gin.ntt.net (116.51.26.113) 0.724 ms 0.779 ms 0.798 ms
 4 ae-8.r01.sngpsi07.sg.bb.gin.ntt.net (129.250.7.84) 180.046 ms 180.131 ms ae-13.r00.sngpsi07.sg.bb.gin.ntt.net (129.250.7.82) 180.046 ms 180.131 ms
 5 ae-2.r20.sngpsi07.sg.bb.gin.ntt.net (129.250.3.101) 2.092 ms 2.117 ms 1.930 ms
 6 ae-1.r25.osakjp02.jp.bb.gin.ntt.net (129.250.2.67) 71.647 ms 71.487 ms 71.667 ms
 7 ae-4.r22.lsanca07.us.bb.gin.ntt.net (129.250.2.176) 178.570 ms 178.760 ms 178.637 ms
 8 ae-1.r00.lsanca07.us.bb.gin.ntt.net (129.250.3.17) 178.327 ms 177.533 ms 182.468 ms
 9 be3025.ccr41.lax04.atlas.cogentco.com (154.54.9.29) 184.740 ms 184.548 ms 189.510 ms
10 be3360.ccr42.lax01.atlas.cogentco.com (154.54.25.149) 182.298 ms 181.801 ms be3271.ccr41.lax01.atlas.cogentco.com (154.54.42.10) 182.298 ms 181.801 ms
11 be2931.ccr31.phx01.atlas.cogentco.com (154.54.44.85) 193.471 ms be2932.ccr32.phx01.atlas.cogentco.com (154.54.45.161) 187.027 ms 187.027 ms
12 be2930.ccr21.elp01.atlas.cogentco.com (154.54.42.78) 196.777 ms 196.440 ms 197.432 ms
13 be2927.ccr41.iah01.atlas.cogentco.com (154.54.29.221) 217.239 ms 217.256 ms be2928.ccr42.iah01.atlas.cogentco.com (154.54.30.16) 217.239 ms 217.256 ms
14 be2687.ccr41.atl01.atlas.cogentco.com (154.54.28.69) 230.433 ms be2690.ccr42.atl01.atlas.cogentco.com (154.54.28.129) 231.369 ms 231.369 ms
15 be2112.ccr41.dca01.atlas.cogentco.com (154.54.7.157) 235.910 ms be2113.ccr42.dca01.atlas.cogentco.com (154.54.24.221) 246.066 ms 246.066 ms
16 be2806.ccr41.jfk02.atlas.cogentco.com (154.54.40.105) 237.788 ms be2807.ccr42.jfk02.atlas.cogentco.com (154.54.40.109) 254.113 ms 254.113 ms
17 be2490.ccr42.lon13.atlas.cogentco.com (154.54.42.86) 254.683 ms be2317.ccr41.lon13.atlas.cogentco.com (154.54.30.186) 231.738 ms 231.738 ms
18 be2868.ccr21.lon01.atlas.cogentco.com (154.54.57.154) 315.588 ms be2871.ccr21.lon01.atlas.cogentco.com (154.54.58.186) 320.127 ms 320.127 ms
19 be2185.rcr21.b015534-1.lon01.atlas.cogentco.com (154.54.61.61) 315.999 ms 310.938 ms 315.259 ms
20 tenet.demarc.cogentco.com (149.14.146.194) 317.842 ms 319.931 ms 319.010 ms
21 et-1-0-0-0-ams1-ir1.net.tenet.ac.za (155.232.1.80) 329.294 ms 331.765 ms 329.361 ms
22 ae0-306-mt21-pe1.net.tenet.ac.za (155.232.1.86) 503.327 ms 504.596 ms 504.692 ms
23 xe-2-2-1-0-isd1-pe2.net.tenet.ac.za (155.232.1.62) 503.564 ms xe-3-2-0-0-isd1-pe2.net.tenet.ac.za (155.232.6.234) 507.180 ms 507.180 ms
24 eth3-15-cpt3-p1.net.tenet.ac.za (155.232.1.67) 516.648 ms eth3-14-cpt3-p1.net.tenet.ac.za (155.232.1.17) 514.988 ms 516.347 ms
25 et-0-0-1-0-cpt3-p2.net.tenet.ac.za (155.232.64.61) 521.103 ms 516.077 ms 518.745 ms
26 et-0-0-1-0-cpt2-p2.net.tenet.ac.za (155.232.64.64) 534.142 ms 542.276 ms 533.861 ms
27 eth50-1-cpt2-p1.net.tenet.ac.za (155.232.64.135) 521.050 ms 526.036 ms 521.870 ms
28 be1-104-cpt2-pe1.net.tenet.ac.za (155.232.64.73) 524.944 ms 520.515 ms 522.845 ms
29 155.232.27.78 (155.232.27.78) 515.244 ms 513.887 ms 518.908 ms
30 * * *
```

Bits pilani

Traceroute Result:

```
traceroute to 14.139.243.30 (14.139.243.30), 30 hops max, 60 byte packets
 1 ge2-8.r01.sin01.ne.com.sg (202.150.221.169) 0.123 ms 0.146 ms 0.157 ms
 2 10.15.62.226 (10.15.62.226) 33.102 ms 33.113 ms 33.118 ms
 3 hurricaneelectric1-100g.hkix.net (123.255.91.158) 34.209 ms 34.316 ms 34.293 ms
 4 15412.hkg.equinix.com (36.255.56.24) 36.060 ms 36.071 ms 36.083 ms
 5 ge-3-1-0-0.pjr01.hkg005.flagtel.com (62.216.129.226) 104.073 ms ge-4-0-0-0.pjr01.hkg005.flagtel.com (85.95.27.170) 103.558 ms 103.558 ms
 6 xe-0-0-0-0.cjr01.sin001.flagtel.com (85.95.26.57) 71.363 ms 71.393 ms xe-2-0-9-0.cjr01.sin001.flagtel.com (62.216.128.10) 72.9 ms 72.9 ms
 7 ae0.0.cjr03.chn001.flagtel.com (62.216.128.234) 104.004 ms 112.075 ms 108.409 ms
 8 80.81.74.198 (80.81.74.198) 103.773 ms 80.81.65.98 (80.81.65.98) 104.743 ms 80.81.64.138 (80.81.64.138) 103.106 ms
 9 * * *
10 115.254.45.161 (115.254.45.161) 91.981 ms 93.881 ms 92.229 ms
11 10.152.7.37 (10.152.7.37) 90.833 ms 91.573 ms 92.230 ms
12 10.255.238.130 (10.255.238.130) 118.650 ms 118.546 ms 119.626 ms
13 14.139.243.17 (14.139.243.17) 112.714 ms 112.686 ms 111.844 ms
14 * * *
15 * * *
16 * * *
17 * * *
18 * * *
19 * * *
20 * * *
21 * * *
22 * * *
23 * * *
24 * * *
25 * * *
26 * * *
27 * * *
28 * * *
29 * * *
30 * * *
```

Traceroute Completed.

Traceroute Result:

```
traceroute to 216.58.219.196 (216.58.219.196), 30 hops max, 60 byte packets
 1  ge2-8.r01.sin01.ne.com.sg (202.150.221.169)  0.128 ms  0.141 ms  0.149 ms
 2  10.15.62.210 (10.15.62.210)  0.224 ms  0.265 ms  0.279 ms
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
```

Traceroute Completed.

Facebook

Traceroute Result:

```
traceroute to 216.58.219.196 (216.58.219.196), 30 hops max, 60 byte packets
 1  ge2-8.r01.sin01.ne.com.sg (202.150.221.169)  0.145 ms  0.168 ms  0.177 ms
 2  10.15.62.210 (10.15.62.210)  0.201 ms  0.273 ms  0.291 ms
 3  * * *
 4  * * *
 5  * * *
 6  * * *
 7  * * *
 8  * * *
 9  * * *
10  * * *
11  * * *
12  * * *
13  * * *
14  * * *
15  * * *
16  * * *
17  * * *
18  * * *
19  * * *
20  * * *
21  * * *
22  * * *
23  * * *
24  * * *
25  * * *
26  * * *
27  * * *
28  * * *
29  * * *
30  * * *
```

Traceroute Completed.

USA

ethz

Traceroute

tracing path from www.net.princeton.edu to 129.132.19.216 ...

```
traceroute to 129.132.19.216 (129.132.19.216), 30 hops max, 40 byte packets
 1 core-87-router (128.112.128.2)  0.901 ms  0.903 ms  0.700 ms
 2 rtr-border-hpcrc-router.princeton.edu (128.112.12.110)  3.657 ms  1.410 ms  1.498 ms
 3 local11.princeton.magpi.net (216.27.98.113)  3.914 ms  3.096 ms  3.613 ms
 4 216.27.100.18 (216.27.100.18)  2.588 ms  2.558 ms  2.522 ms
 5 et-7-1-0.4079.rtsw.newy32aoa.net.internet2.edu (162.252.70.102)  4.483 ms  4.720 ms  4.364 ms
 6 198.71.45.237 (198.71.45.237)  75.272 ms  75.114 ms  77.250 ms
 7 ae5.mx1.gen.ch.geant.net (62.40.98.182)  84.673 ms  82.307 ms  82.349 ms
 8 swice1-100ge-0-3-0-1.switch.ch (62.40.124.22)  82.617 ms  82.842 ms  82.457 ms
 9 swiCE4-B4.switch.ch (130.59.36.70)  82.688 ms  83.121 ms  82.684 ms
10 swiBE3-100GE-0-1-0-1.switch.ch (130.59.37.145)  85.568 ms  85.589 ms  85.554 ms
11 swiBF1-100GE-0-0-0-1.switch.ch (130.59.39.78)  86.010 ms  86.241 ms  85.822 ms
12 swiEZ3-100GE-0-1-0-0.switch.ch (130.59.37.6)  86.626 ms  86.563 ms  86.674 ms
13 rou-gw-lee-tengig-to-switch.ethz.ch (192.33.92.1)  86.928 ms  86.722 ms  86.643 ms
14 rou-fw-rz-rz-gw.ethz.ch (192.33.92.169)  86.846 ms  86.781 ms  86.830 ms
15 www.ethz.ch (129.132.19.216)  86.387 ms  86.112 ms  86.193 ms
```

Done.

Waterloo

Traceroute

tracing path from www.net.princeton.edu to 129.97.208.23 ...

```
traceroute to 129.97.208.23 (129.97.208.23), 30 hops max, 40 byte packets
 1 core-87-router (128.112.128.2)  40.898 ms  2.126 ms  0.530 ms
 2 rtr-border-hpcrc-router.princeton.edu (128.112.12.110)  1.730 ms  1.246 ms  1.320 ms
 3 local11.princeton.magpi.net (216.27.98.113)  2.613 ms  2.402 ms  2.388 ms
 4 216.27.100.18 (216.27.100.18)  2.549 ms  2.517 ms  2.353 ms
 5 et-1-1-0.4079.rtsw.wash.net.internet2.edu (162.252.70.119)  6.126 ms  6.176 ms  6.214 ms
 6 ae-0.4079.rtsw2.ashb.net.internet2.edu (162.252.70.137)  6.865 ms  6.925 ms  6.916 ms
 7 ae-2.4079.rtsw.ashb.net.internet2.edu (162.252.70.74)  6.738 ms  6.735 ms  6.796 ms
 8 ae-20.4079.rtsw.clev.net.internet2.edu (162.252.70.129)  14.496 ms  14.376 ms  14.371 ms
 9 ae-3.4079.rtsw3.eqch.net.internet2.edu (162.252.70.131)  23.214 ms  73.175 ms  73.897 ms
10 ae-5.4079.rtsw.eqch.net.internet2.edu (162.252.70.162)  26.444 ms  27.107 ms  74.181 ms
11 ae-0.4079.rtsw.star.net.internet2.edu (162.252.70.111)  23.257 ms  23.288 ms  22.890 ms
12 205.189.32.241 (205.189.32.241)  33.321 ms  33.387 ms  33.121 ms
13 205.189.32.40 (205.189.32.40)  33.790 ms  33.672 ms  33.619 ms
14 66.97.21.2 (66.97.21.2)  50.116 ms  66.97.21.18 (66.97.21.18)  52.314 ms  52.281 ms
15 66.97.16.229 (66.97.16.229)  49.879 ms  66.97.16.233 (66.97.16.233)  52.666 ms  52.679 ms
16 66.97.28.66 (66.97.28.66)  27.736 ms  27.745 ms  29.825 ms
17 * * *
18 * * *
19 * * *
20 * * *
21 wms.uwaterloo.ca (129.97.208.23)  33.084 ms  33.285 ms  33.049 ms
22 wms.uwaterloo.ca (129.97.208.23)  30.749 ms !N  32.899 ms !N  33.052 ms !N
```

Done.

capetown

Traceroute

```
tracing path from www.net.princeton.edu to 137.158.158.44 ...

traceroute to 137.158.158.44 (137.158.158.44), 30 hops max, 40 byte packets
 1 core-87-router (128.112.128.2)  0.832 ms  0.962 ms  0.783 ms
 2 rtr-border-87-router.princeton.edu (128.112.12.78)  1.268 ms  1.204 ms  1.136 ms
 3 rtr-border-hprc-router.princeton.edu (204.153.48.54)  1.664 ms  1.629 ms  1.611 ms
 4 local1.princeton.magpi.net (216.27.98.113)  2.892 ms  2.580 ms  2.662 ms
 5 216.27.100.18 (216.27.100.18)  2.809 ms  2.902 ms  2.797 ms
 6 et-7-1-0.4079.rtsu.newy32aaa.net.internet2.edu (162.252.70.102)  5.139 ms  4.705 ms  4.594 ms
 7 vlan-127.rtr.newy32aaa.net (198.71.45.193)  4.880 ms  4.843 ms  4.718 ms
 8 xe-11-3-0-420-1dn1-ir1.net.tenet.ac.za (155.232.212.108)  77.887 ms  77.792 ms  77.890 ms
 9 lt-0-0-0-2-1dn1-ir1.net.tenet.ac.za (155.232.208.28)  262.600 ms lt-11-0-0-2-1dn1-ir1.net.tenet.ac.za (155.232.208.30)  261.587 ms  261.684 ms
10 et-1-0-0-0-ams1-ir1.net.tenet.ac.za (155.232.1.80)  262.323 ms  261.735 ms  261.603 ms
11 ae0-306-mtz1-pe1.net.tenet.ac.za (155.232.1.86)  262.824 ms  262.653 ms  263.958 ms
12 xe-1-2-3-0-isd1-pe2.net.tenet.ac.za (155.232.6.226)  271.209 ms xe-4-3-1-0-isd1-pe2.net.tenet.ac.za (155.232.6.252)  274.101 ms xe-2-2-1-0-isd1-pe2.net.tenet.ac.za (155.232.1.62)  271.840 ms
13 eth3-38-cpt3-p1.net.tenet.ac.za (155.232.1.35)  287.057 ms eth3-35-cpt3-p1.net.tenet.ac.za (155.232.1.33)  289.431 ms eth3-13-cpt3-p1.net.tenet.ac.za (155.232.1.69)  286.859 ms
14 et-0-0-1-0-cpt3-p2.net.tenet.ac.za (155.232.64.61)  290.050 ms  286.844 ms  286.531 ms
15 et-0-0-1-0-cpt2-p2.net.tenet.ac.za (155.232.64.64)  286.955 ms  287.581 ms  287.098 ms
16 eth50-1-cpt2-p1.net.tenet.ac.za (155.232.64.135)  287.971 ms  288.041 ms  289.511 ms
17 be1-104-cpt2-pe1.net.tenet.ac.za (155.232.64.73)  286.975 ms  287.154 ms  287.102 ms
18 155.232.27.78 (155.232.27.78)  289.580 ms  288.767 ms  289.574 ms
19 * * *
20 * * *
21 * * *
22 * * *
23 * * *
24 * * *
25 * * *
26 * * *
27 * * *
```

Bits-pilani similar

Traceroute

```
tracing path from www.net.princeton.edu to 137.158.158.44 ...

traceroute to 137.158.158.44 (137.158.158.44), 30 hops max, 40 byte packets
 1 core-87-router (128.112.128.2)  0.832 ms  0.962 ms  0.783 ms
 2 rtr-border-87-router.princeton.edu (128.112.12.78)  1.268 ms  1.204 ms  1.136 ms
 3 rtr-border-hprc-router.princeton.edu (204.153.48.54)  1.664 ms  1.629 ms  1.611 ms
 4 local1.princeton.magpi.net (216.27.98.113)  2.892 ms  2.580 ms  2.662 ms
 5 216.27.100.18 (216.27.100.18)  2.809 ms  2.902 ms  2.797 ms
 6 et-7-1-0.4079.rtsu.newy32aaa.net.internet2.edu (162.252.70.102)  5.139 ms  4.705 ms  4.594 ms
 7 vlan-127.rtr.newy32aaa.net (198.71.45.193)  4.880 ms  4.843 ms  4.718 ms
 8 xe-11-3-0-420-1dn1-ir1.net.tenet.ac.za (155.232.212.108)  77.887 ms  77.792 ms  77.890 ms
 9 lt-0-0-0-2-1dn1-ir1.net.tenet.ac.za (155.232.208.28)  262.600 ms lt-11-0-0-2-1dn1-ir1.net.tenet.ac.za (155.232.208.30)  261.587 ms  261.684 ms
10 et-1-0-0-0-ams1-ir1.net.tenet.ac.za (155.232.1.80)  262.323 ms  261.735 ms  261.603 ms
11 ae0-306-mtz1-pe1.net.tenet.ac.za (155.232.1.86)  262.824 ms  262.653 ms  263.958 ms
12 xe-1-2-3-0-isd1-pe2.net.tenet.ac.za (155.232.6.226)  271.209 ms xe-4-3-1-0-isd1-pe2.net.tenet.ac.za (155.232.6.252)  274.101 ms xe-2-2-1-0-isd1-pe2.net.tenet.ac.za (155.232.1.62)  271.840 ms
13 eth3-38-cpt3-p1.net.tenet.ac.za (155.232.1.35)  287.057 ms eth3-35-cpt3-p1.net.tenet.ac.za (155.232.1.33)  289.431 ms eth3-13-cpt3-p1.net.tenet.ac.za (155.232.1.69)  286.859 ms
14 et-0-0-1-0-cpt3-p2.net.tenet.ac.za (155.232.64.61)  290.050 ms  286.844 ms  286.531 ms
15 et-0-0-1-0-cpt2-p2.net.tenet.ac.za (155.232.64.64)  286.955 ms  287.581 ms  287.098 ms
16 eth50-1-cpt2-p1.net.tenet.ac.za (155.232.64.135)  287.971 ms  288.041 ms  289.511 ms
17 be1-104-cpt2-pe1.net.tenet.ac.za (155.232.64.73)  286.975 ms  287.154 ms  287.102 ms
18 155.232.27.78 (155.232.27.78)  289.580 ms  288.767 ms  289.574 ms
19 * * *
20 * * *
21 * * *
22 * * *
23 * * *
24 * * *
25 * * *
26 * * *
27 * * *
```

Google

```
tracing path from www.net.princeton.edu to 216.58.219.196 ...

traceroute to 216.58.219.196 (216.58.219.196), 30 hops max, 40 byte packets
 1 core-87-router (128.112.128.2)  1.227 ms  0.779 ms  0.533 ms
 2 rtr-border-87-router.princeton.edu (128.112.12.78)  1.305 ms  1.076 ms  1.172 ms
 3 v1205.core1.nyc4.he.net (216.66.49.73)  2.531 ms  2.644 ms  2.483 ms
 4 * * *
 5 * * *
 6 * * *
 7 * * *
 8 * * *
 9 * * *
10 * * *
11 * * *
12 * * *
13 * * *
```


Facebook

Traceroute

tracing path from `www.net.princeton.edu` to `216.58.219.196` ...

traceroute to `216.58.219.196` (`216.58.219.196`), 30 hops max, 40 byte packets

```
1  core-87-router (128.112.128.2)  1.108 ms  1.226 ms  0.744 ms
2  rtr-border-87-router.princeton.edu (128.112.12.78)  1.774 ms  1.093 ms  1.405 ms
3  v1205.core1.nyc4.he.net (216.66.49.73)  2.673 ms  2.774 ms  2.512 ms
4  * * *
5  * * *
6  * * *
7  * * *
8  * * *
9  * * *
10 * * *
11 * * *
12 * * *
13 * * *
14 * * *
15 * * *
16 * * *
17 * * *
18 * * *
```